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Apple's Proposal For Free Spectrum: What It Means To You

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Of Multimedia. See Inside!

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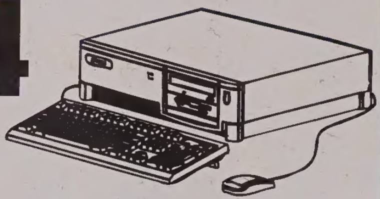
486DX4 90MHz

PRESARIO 744 CDS 535MB MULTIMEDIA SYSTEM



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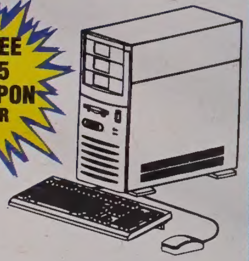

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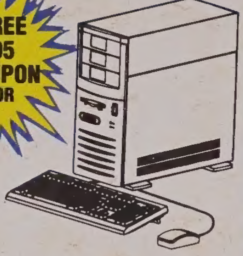

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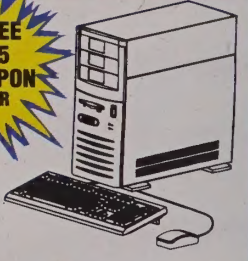

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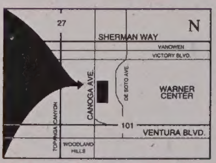
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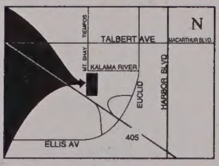
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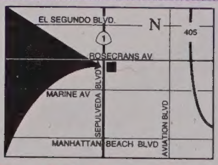
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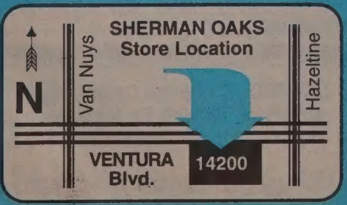
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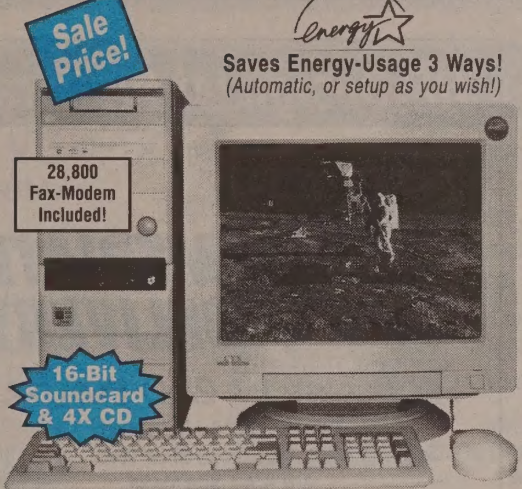
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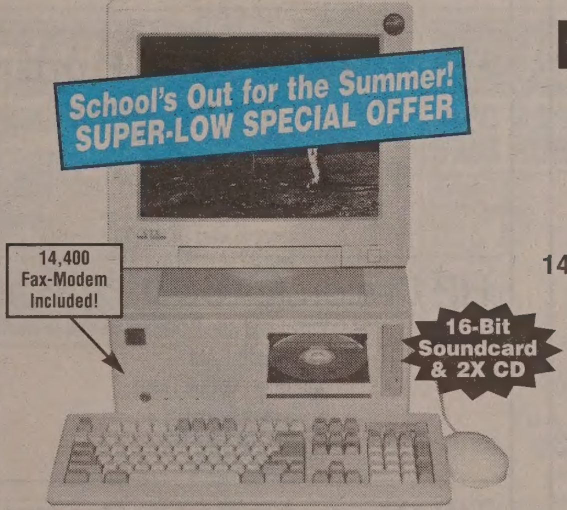
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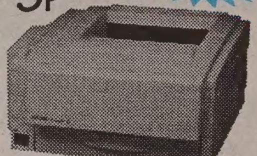

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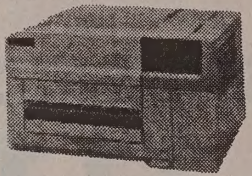

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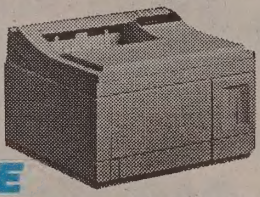

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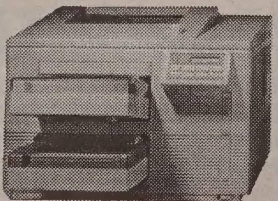

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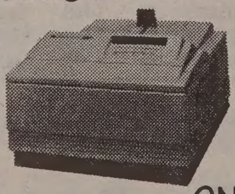

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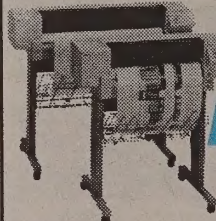

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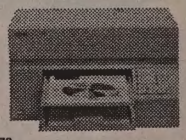

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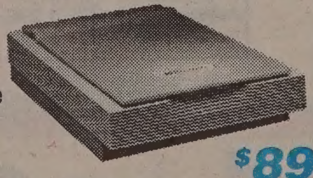

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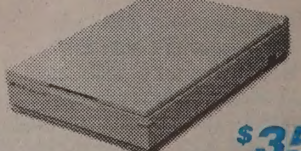

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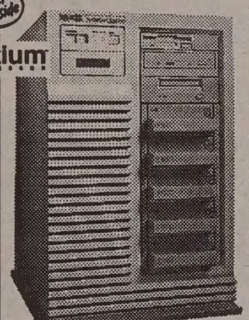

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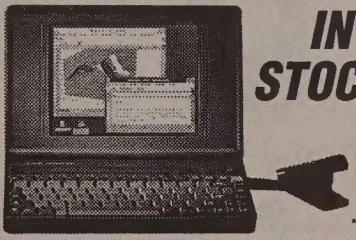

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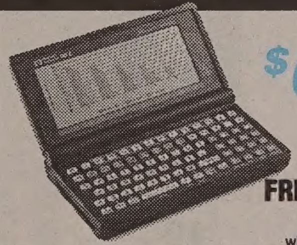

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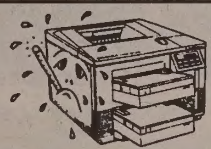

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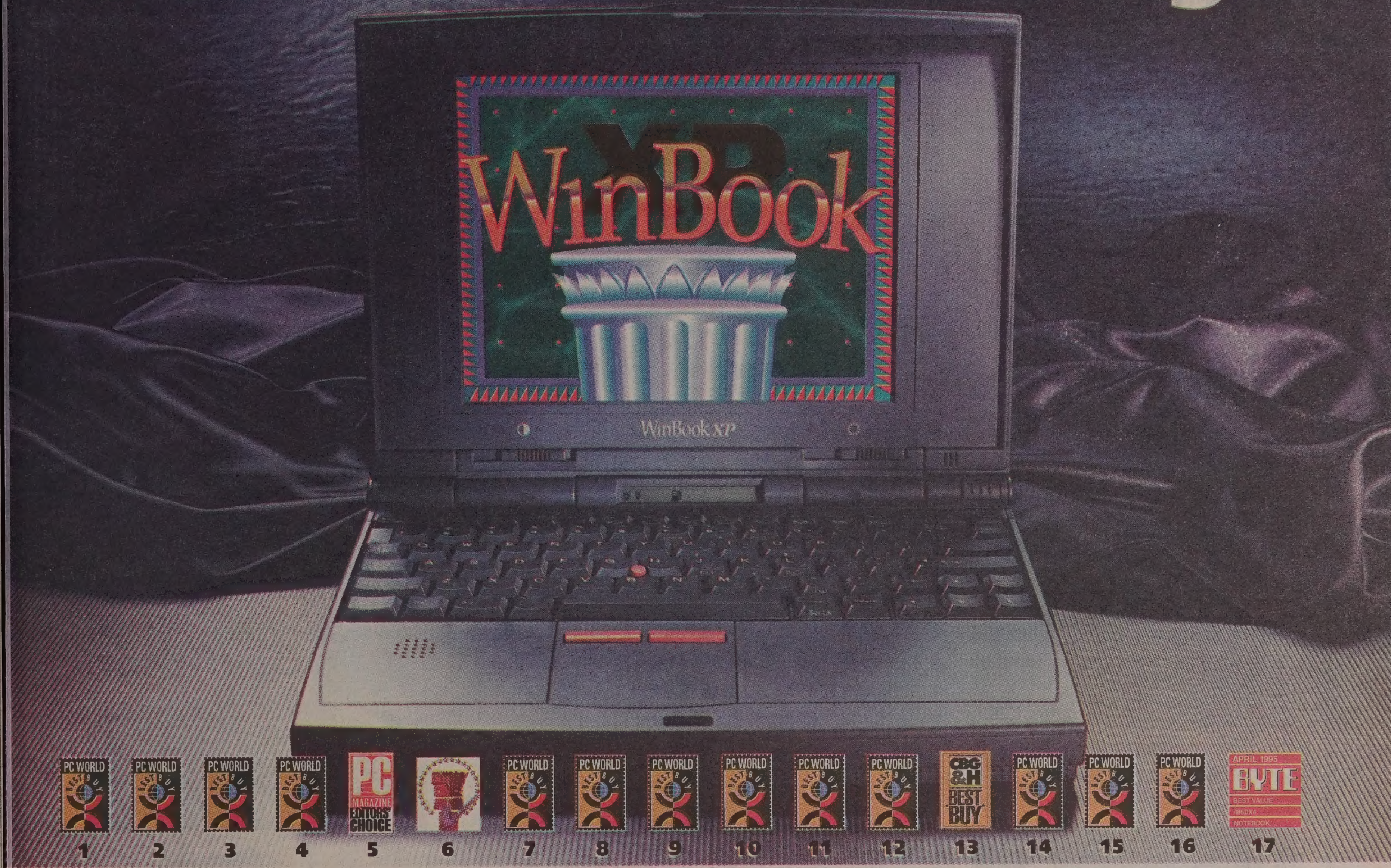

1 PC World — Best Buy - May 1995, WinBook XP SX33 8/260 Monochrome

2 PC World — Best Buy - June 1995, WinBook XP SX33 8/260 Monochrome

3 PC World — Best Buy - July 1995, WinBook XP SX33 8/260 Monochrome

4 PC World — Best Buy - August 1995, WinBook XP SX33 8/260 Monochrome

5 PC Magazine — Editors' Choice - August 1994, WinBook XP DX2/50 4/260 Monochrome

6 PC Laptop — Editors' Choice - Most Improved Portable January 1995, WinBook XP

7 PC World — Best Buy - February 1995, WinBook XP DX2/50 8/255 Monochrome

8 PC World — Best Buy - March 1995, WinBook XP DX2/50 8/255 Monochrome

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13 Laptop Buyer's Guide — Best Buy - July 1995, WinBook XP DX4/100 8/810 Active Matrix Color

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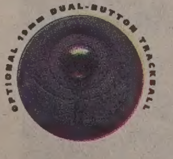
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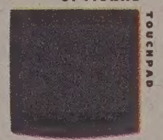
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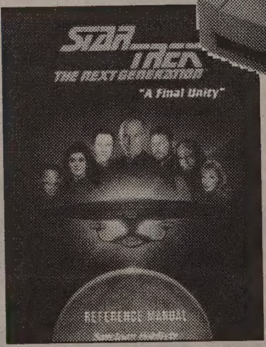

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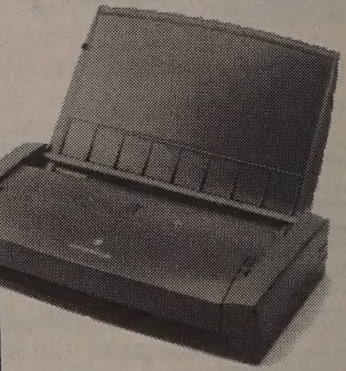

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Starts On Page 107

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Contributors
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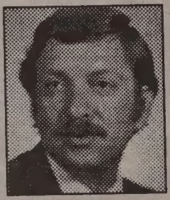
He organized and chaired the landmark First Conference on Computers, Freedom & Privacy (1991), founded *InfoWorld*, was founding host of PBS's *Computer Chronicles* and founding editor of *Dr. Dobb's Journal*, and has chaired various computer and mathematics organizations. He holds graduate degrees in computing (Stanford), medical information science (UC Medical Center), and mathematics and statistics. He began working as a programmer in 1968, and was a mathematics teacher and professor for ten years before that.



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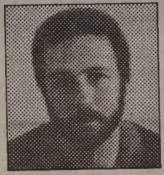

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Correction

Due to a case of temporary dyslexia, we managed to misprint the phone number for Dick Shaffer's Technologic Partners in last issue's "Venture Capital and the Internet" story. The correct number is (212)343-1900. Our apologies to those who have been inconvenienced and/or irritated by this. In addition, for those of you without email capabilities, Ann Winblad and Hummer Winblad Venture Partners can be reached at (510)652-8061, Kevin Fong and the Mayfield Fund at (415)854-5560, and Anthony Perkins and The Red Herring at (415)865-2277. —eds.

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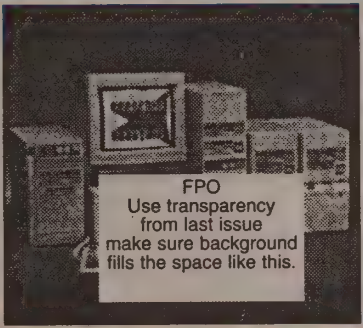
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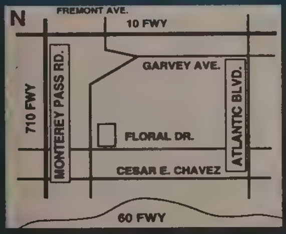

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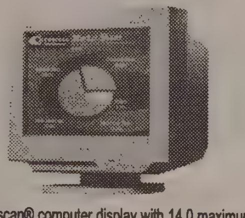

- 15" Digital Multiscan® computer display with 14.0 maximum diagonal image size
- Trinitron® technology delivers bright images and vibrant colors
- .25mm Aperture Grille pitch
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- New design features simple control buttons and minimizes footprint
- Includes color temperature control

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- New design features simple control buttons and minimizes footprint
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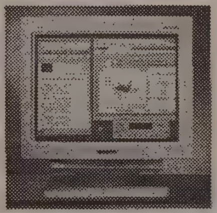
Multiscan 17sf

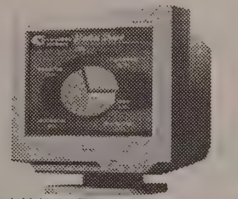


- 17" Digital Multiscan computer display with 16.1" viewable image size
- Trinitron® technology delivers bright images and vibrant colors
- .25mm Aperture Grille pitch
- Mac Compatible
- EPA Energy Star and MPR II compliant
- Supports PC and Macintosh resolutions from VGA to 1280 x 1024 at 60Hz
- New design features simple control buttons and minimizes footprint
- Includes color temperature control

#SON-17SF

$839

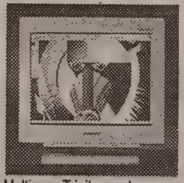
Multiscan 17se



- 17" Super Fine Pitch Multiscan Trinitron color graphic display w/16.1" viewable image size
- Unique ASIC design automatically adjusts image geometry parameters across a continuous range of scan frequencies
- Energy Star and VESA-DPMS compliant
- .25mm Aperture Grille pitch
- Mac Compatible
- Maximum resolution of 1600x1200 at 60 Hz
- Horizontal scan range of 31.5 to 82kHz
- Easy-to-use digital control of screen images
- Includes color temperature control for publishing, photography, imaging, and design applications
- Swedish MPR II compliant

$1019

Multiscan 20se



- 20" Super Fine Pitch Multiscan Trinitron color graphics display monitor with 19.1" viewable image size
- .30mm Aperture Grille pitch
- Mac Compatible
- Maximum resolution of 1600 x 1200 at 60Hz refresh (non-interlaced)
- Variable scan frequency of 31.5 to 85 KHz
- Horizontal Overscanning for crisp edge-to-edge images
- Energy Star Compliance Ecologic
- Includes color temperature control for publishing, photo and design applications
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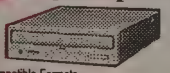

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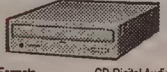

- Compatible Formats
- MPC II
- Single and Multisession Photo CD
- CD-ROM XA
- CD Bridge
- CD-ROM Mode 1 and 2 discs
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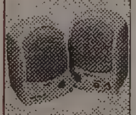
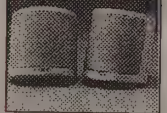
SRS-PC20
Personal Computer Speakers



- Built-in amplifiers: 1 watt per channel (2W)
- Speaker controls: Master volume, Bass boost

$33.99

SRS-PC30
Personal Computer Speakers



- Built-in amplifiers: 1.5 watts per channel (3W)
- Speaker Controls: Master volume, Bass boost

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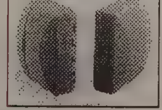
SRS-PC50
Personal Computer Speakers



- Built-in amplifiers: 2.5 watts per channel (5W)
- Speaker Controls: Master volume, Bass boost

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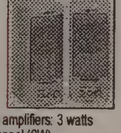
SRS-58PC
Active Stereo Speaker System



- Built-in amplifiers: 3 watts per channel (6W)
- Speaker controls:
  Independent volume for optimum stereo balance,
  Independent Dynamic Equalizer System

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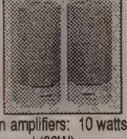
SRS-88PC
Active Stereo Speaker System



- Built-in amplifiers: 10 watts per channel (20W)
- Speaker controls:
  Independent volume for optimum stereo balance,
  Independent Dynamic Equalizer System

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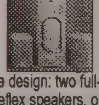
SRS-D2KPC
3-Piece Personal Computer Speakers



- 3-piece design: two full-range, bass reflex speakers, one bass reflex subwoofer
- Speaker controls:
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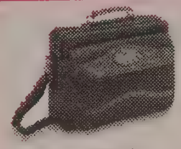

Room for notebook, documents, day planners and more. Rugged nylon, with a water-resistant coating. 15"w x 12"h x 4"d

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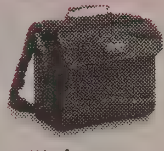
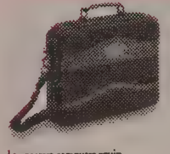


Water-resistant Nylon, four compartments for notebook, printer, diskettes and more. 14"w x 12"h x 5"d

SS200 $39.99



Designed to protect computer equipment and provide fuctional storage space in one compartment. Water-Resistant. 16"w x 12"h x 3"d

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Reinforced Nylon for extra protection. Features three separate compartments for notebook computer, printer and other equipment. Water-Resistant fabric coating. 14"w x 12"h x 7"d

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Smaller Version of the deluxe mobile office with three compartments and ample storage space. Made of fine top-grain leather. 15"w x 13"h x 5"d

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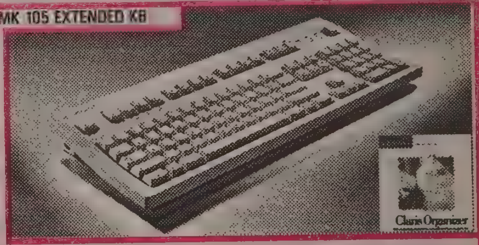

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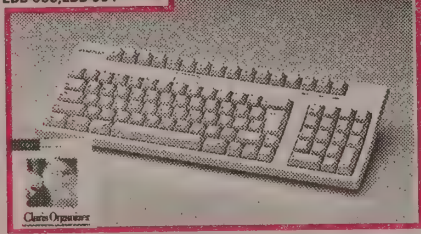

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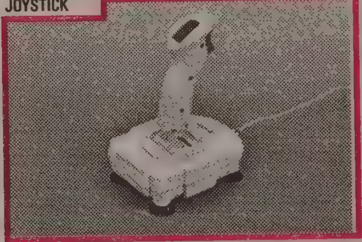

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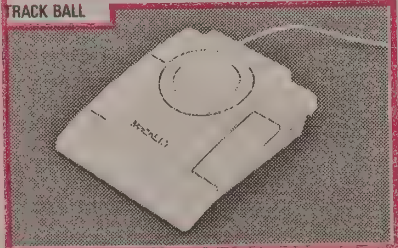

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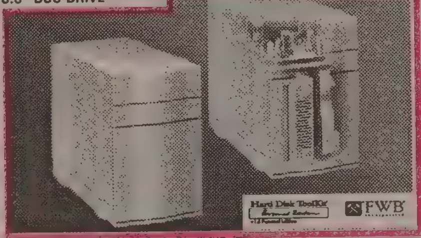

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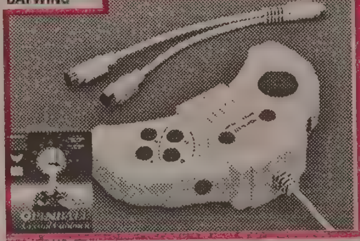

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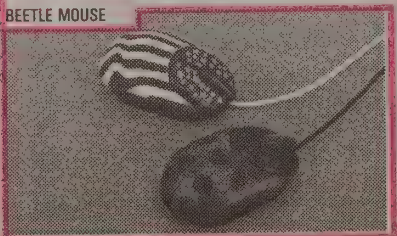

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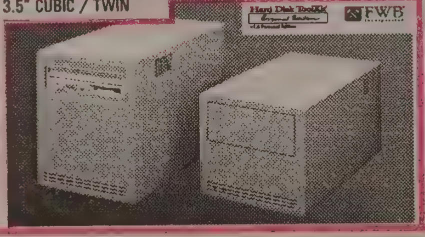

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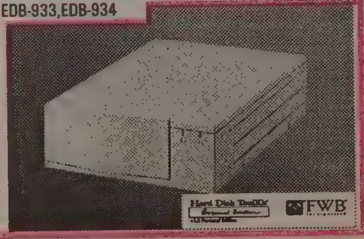

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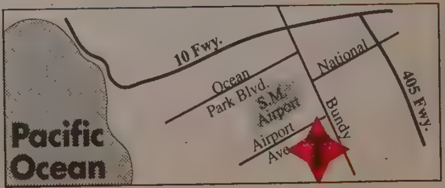

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News and Views

BY PAUL HOFFMAN

Industry Insights

Will Microsoft Network Fly? Stay Tuned...

Windows 95 is having the hardest time getting out the door. First it was the bugs (well, it is probably still the bugs). Then it was the installation problems. Now it's Microsoft Network, Microsoft's new online service that comes bundled with Windows 95.

By the time you read this, Microsoft will have sent the final version of Windows 95 to the disk duplicators so that it can meet its often-announced release deadline of the end of August (even Microsoft can't duplicate literally tens of millions of diskettes and CD-ROMs overnight).

During June and July, the issue of whether Microsoft should be able to bundle Microsoft Network as they were showing it in the Windows 95 beta tests started to come to a head. Microsoft's major competitors, such as America Online, CompuServe, and Prodigy, started to increase the pressure on the Department of Justice to quickly look into whether Microsoft Network was anticompetitive and monopolistic. The more people looked at how Microsoft was positioning the distribution of Microsoft Network, the more Microsoft dug in its heels.

(Writing about time-sensitive news for print publications like *MicroTimes* is always a difficult task; ah, for the bright future of real-time electronic publishing. I am writing this column in mid-July, and by the time you read this, there's a good chance that the legal situation for Microsoft will have changed significantly. Or maybe not.)

The basic issues involve not whether Microsoft should be allowed to enter the online market, but *how* it will enter that market. Clearly, Microsoft could be a great online publisher, although it could also be an average one, as evidenced by its mediocre Web site. Microsoft has enough money to buy great content to sell to its users, and it has the technical know-how to create both good client software and server software. In fact, if Microsoft Network never seems slow to the millions of people who will most likely subscribe, it could be a great advertisement for the power of Windows NT as a communications server.

However, the method Microsoft is using to distribute Microsoft Network and to integrate it in Windows 95 clearly uses Microsoft's already-dominant position in the operating system market as a wedge to get and keep users at the expense of its competitors. The issues fall into two general categories: bundling, and integration with the operating system.

By including Microsoft Network with every copy of Windows 95, Microsoft has shifted the cost of distribution and marketing the online service from themselves to their customers. When you buy a copy of Microsoft Network, you are in essence paying Microsoft for the distribution and documentation of the service, whether or not you use it. This distribution cost can be incredibly significant, as anyone who has received the zillionth diskette from America Online knows. Microsoft doesn't need to advertise Microsoft Network in magazines or on TV: it just needs to send letters to registered Windows 95 users, and that's all.

THE BASIC ISSUES INVOLVE NOT WHETHER MICROSOFT SHOULD BE ALLOWED TO ENTER THE ONLINE MARKET, BUT *HOW* IT WILL ENTER THAT MARKET.

The situation for hardware manufacturers, who are pretty much forced to include Windows 95 on their hardware, is much worse. Normally, online companies like CompuServe pay the hardware manufacturers big bucks to include their software on each system manufactured. As CompuServe has pointed out, the hardware companies are now paying Microsoft to distribute Microsoft Network, not the other way around. To date, Microsoft has not allowed any hardware company to include Windows 95 without Microsoft Network.

To make matters worse, the act of integrating Microsoft Network with Windows 95 makes it appear that the online service is part of the operating system. Microsoft has prevented any of its potential competitors from competing on equivalent footing by letting them integrate their software as closely as Microsoft. When you run Windows 95 the first time, you see an icon for Microsoft Network, with no indication until after a series of dialog boxes that you have to pay extra for the service, and that you don't need to use the service at all in order to run Windows 95.

If Microsoft allowed its competitors to bundle their software the same way Microsoft does, they would have much less to complain about. But, even if Microsoft said today that it would make the links to integrating online software to Windows 95 an open system, it is likely that Microsoft would prevent competition the way it has consistently done in the past in similar situations, such as with its supposedly open electronic mail standard. Microsoft would deliver the linking software late; it would be incomplete; Microsoft would keep changing the rules; it would require its competitors to sign one-sided contracts; and it would move its software ahead while its competitors would be trying to play catch-up.

If this all sounds pretty anticompetitive, it is. However, it is not clear that the US Department of Justice will do anything about it. The DOJ has been making serious inquiries into the bundling of Microsoft Network so that it might possibly prevent Windows 95 from being released with Microsoft Network, but at the time of this writing it is unlikely that the DOJ will move fast enough.

The DOJ then has the option of stopping Microsoft Network after it has been released, but the chances of that are incredibly slim, given the department's reluctance to do anything about Microsoft other than prevent its merger with Intuit.

If Microsoft is successful in releasing Microsoft Network with Windows 95, it will probably hurt, but not kill, Microsoft's competitors in the online market. Prodigy, CompuServe, and America Online will probably continue to grow, but not as fast as they did before, and they'll be forced to react to Microsoft's online moves in the same way that they have been forced to compete with each other more in the past year.

For online users, Microsoft Network could be a really great thing, depending on how Microsoft prices the service and how well it supports it technically.

By including Microsoft Network with every copy of Windows95, Microsoft has shifted the cost of distribution and marketing the online service from themselves to their customers.

Adobe Buys Frame, Boca Buys Hayes: Content vs. Name Recognition

Summer seems to be the season for companies to buy their competitors. Two recent friendly buyouts of major computer companies points to some of the major motivations that drive the market for computer companies.

Adobe System's purchase of Frame Technology, maker of the FrameMaker page layout package, was ostensibly a way for Adobe to make more serious inroads into the UNIX market, where FrameMaker is strongest. FrameMaker competes with Adobe's well-known PageMaker program, although in different niches of the document preparation market. While PageMaker is best suited for small jobs with lots of custom design on each page, FrameMaker is best for long documents with consistent designs such as books, catalogs, and manuals.

Both companies have recently begun offering products that allow their customers to put their documents on the Internet in a way that users can access easily.

Frame has not been able to penetrate the PC and Macintosh markets as well as it wanted to, and generally had to cede these markets to Adobe and others, even though FrameMaker for those platforms runs just as well (if not better)

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- Floppy Drive: 1.44MB(3.5")
- Case: Mini Tower
- Monitor: 14" SUPER VGA, Non-Interlaced with 0.28 dot pitch
- I/O Port: 2-Serial, 1-Parallel & 1-Game
- Keyboard: Enhanced 101-Key
- High Resolution Serial Mouse & Mouse Pad
- Fax/Modem: High speed internal 14,400bps
- Includes Heat Sink & Cooling Fan

MULTIMEDIA PACKAGE
- CD-ROM:Double Speed w/Direct Audio Play/Skip
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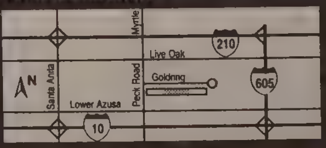

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intel inside

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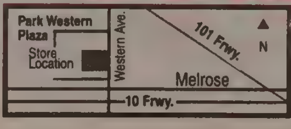

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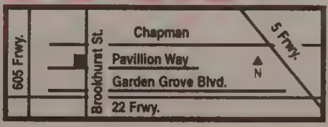

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than it does on high-end UNIX systems. Adobe's wide range of interoperating products was able to bring more users into the PageMaker fold, and now it will be able to use FrameMaker on UNIX platforms as a springboard for sales into the still-growing UNIX market.

Last November, venerable Hayes Microcomputer went into bankruptcy, citing a severe cash flow problem due to rapidly falling prices for its products. Hayes is a privately held company, and because of its huge name recognition, was able to float reasonably through Chapter 11 proceedings and stay in business. However, it didn't look like Hayes would necessarily ever make it out of Chapter 11, and it quietly started looking for an investor.

Boca Research, a low-price modem and peripheral manufacturer, came to the rescue early last month and bought the company, including the fairly valuable Hayes name. Boca has been quite successful with its line of inexpensive commodity items such as modems and graphics boards, and was thus able to trade enough stock to buy Hayes.

The likely outcome is that the modems with the Hayes name will continue to be available; Hayes's off-brand line called Practical Peripherals may or may not survive the merger.

In contrast to the Adobe-Frame buyout, Boca bought Hayes mostly for its name recognition. Modems are almost completely a commodity market, driven mostly by price and standards, with only small segments of the market driven by quality. Hayes used to be known as the standard, but in the past few years other companies were easily able to create competing modems that met all standards very quickly, and apparently more cheaply than Hayes. After the final release of the most recent standard for modems, the V.34 standard for 28.8K modems, most of Hayes's competitors were able to come out with their modems within a month or two of Hayes. More embarrassingly, Hayes did not score at the top of almost anyone's modem ratings for these new modems.

As computer users have seen in previous buyouts over the years, such wholesale company purchases usually do not cause much of a change in the products or their marketing.

However, the next versions of the software, particularly the software of the buying company, usually see a marked difference. Unfortunately, the level of technical support for the products of the purchased companies often diminishes as the buying company is slow to integrate the bought company's support organization. Already, Lotus's customers are voicing concern for how well IBM can support a program as dynamic as Notes.

In the case of FrameMaker, Adobe has a pretty good reputation for software support; in the case of Hayes, Boca's reputation is mainly unknown. ■

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Stock Chart on page 24

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LTE Elite 4/75CX 8/510 W/Smart Station	4263
IBM	
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IBM ThinkPad 510CS 4/200	1329
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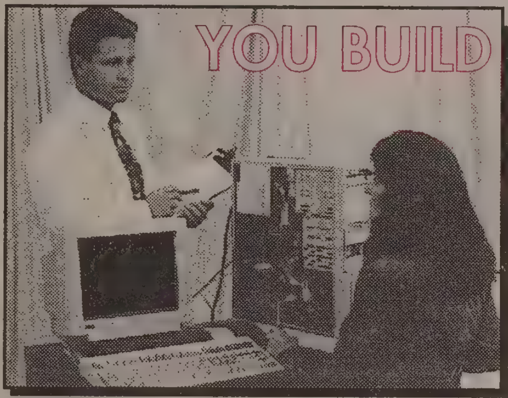

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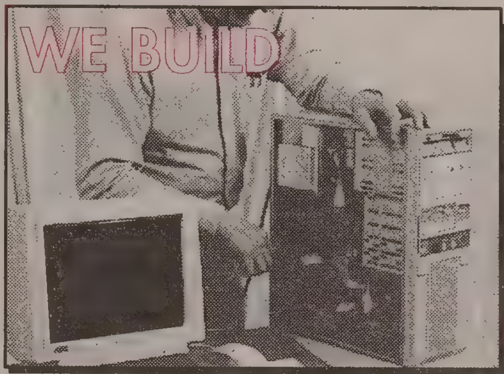

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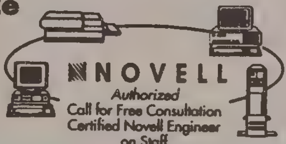

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	SOFTWARE											
OTC	Adobe		ADBE	59.00	58.63	-0.38	-0.64	107	0.20	0.34	66.50	27.25
OTC	Autodesk	(H)	ACAD	43 00	46.25	3.25	7.56	35	0.24	0.52	50.25	24.63
OTC	Borland		BORL	12.94	11.81	-1 13	-8.70	-	0.00	0.00	14.38	6.00
OTC	Informix	(H)	IFMX	26.50	28.50	2.00	7.55	48	0.00	0.00	32.38	9 63
OTC	Lotus		LOTS	63.88	63.88	0.00	0.00	-	0.00	0.00	64.13	25.00
OTC	Microsoft	(H)	MSFT	90.69	89.00	-1.69	-1.86	38	0.00	0.00	109.25	52.00
OTC	Novell		NOVL	19.75	17.50	-2.25	-11.39	34	0.00	0.00	23.25	13.75
OTC	Oracle	(H)	ORCL	38.75	39.63	0.88	2.26	40	0.00	0.00	44.00	24.38
OTC	Software Publishing		SPCO	3.50	3.50	0.00	0.00	44	0.00	0.00	6.25	2.88
OTC	Symantec		SYMC	27.88	26.63	-1.25	-4.48	26	0.00	0.00	30.00	11.13
	HARDWARE											
OTC	Apple		AAPL	46.50	44.38	-2.13	-4.57	11	0.48	1.08	50.13	32.13
OTC	AST Research		ASTA	16.00	15.00	-1.00	-6.25	-	0 00	0.00	19.25	10.38
NYS	Compaq	(H)	CPQ	45.38	49.38	4.00	8.82	15	0.00	0.00	52.88	30.75
NYS	Digital Equipment		DEC	40.13	43.13	3.00	7.48	288	0.00	0.00	49.50	19.63
OTC	Dell	(H)	DELL	60.13	63.25	3.13	5.20	16	0.00	0.00	70.13	28.00
NYS	Hewlett-Packard	(H)	HWP	76.13	72.50	-3.63	-4.76	19	0.80	1.10	83 75	39.50
NYS	IBM	(H)	IBM	96.75	107.50	10.75	11.11	13	1.00	0.93	111.75	61.88
NYS	Silicon Graphics	(H)	SGI	41.63	39.00	-2.63	-6.31	30	0.00	0.00	45.63	23.25
OTC	Sun Microsystems	(H)	SUNW	48.88	45.38	-3.50	-7.16	13	0.00	0.00	51.50	22.63
NYS	Xerox		XRX	120.38	117.00	-3.38	-2.80	15	3.00	2.56	125.88	90.63
NYS	Tandy	(H)	TAN	52.50	59.13	6.63	12.62	19	0.72	1.22	59.88	37.38
	CPU'S											
NYS	Advanced Micro Devices	(H)	AMD	35.38	31.00	-4.38	-12.37	10	0.00	0.00	67.50	22.25
OTC	Intel	(H)	INTC	63.75	61.50	-2.25	-3.53	19	0.16	0.26	78.38	28.38
NYS	LSI Logic	(H)	LSI	39.88	42.38	2.50	6.27	30	0.00	0.00	49.88	13.75
NYS	Motorola	(H)	MOT	69.00	73.88	4.88	7.07	25	0.40	0.54	80.13	49.00
	COMMUNICATIONS											
NYS	AT&T		T	53.88	52.63	-1.25	-2.32	17	1.32	2.51	59.00	47.25
NYS	BellSouth Corp.	(H)	BLS	63.63	67.88	4.25	6.68	16	2.76	4.07	68.25	50.50
OTC	MCI		MCIC	22.00	24.00	2.00	9.09	18	0.05	0.21	25.88	17.25
NYS	Northern Telecom		NT	36.13	37.63	1.50	4.15	23	0.44	1.17	41.00	31.25
NYS	Pacific Telesis		PAC	26.75	28.63	1.88	7.01	11	2.18	7.62	33.50	25.63

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	14
DECLINES	14
UNCHANGED	2
NEW HIGHS	16
NEW LOWS	0

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	IBM	$	10.75
LARGEST DOLLAR LOSER	Advanced Micro Devices	$	-4.38
LARGEST PERCENTAGE GAINER	Tandy		12.62 %
LARGEST PERCENTAGE LOSER	Advanced Micro Devices		-12.37 -%

	CLOSE 07/05/95	CLOSE 08/02/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7437.77	7501.51	63.75	0.86
DOW JONES INDUSTRIAL AVERAGE	4615.23	4665.85	50.62	1.10
STANDARD & POOR'S 500 INDEX	547.26	558.80	11.54	2.11
N.Y.S.E. COMPOSITE	293.21	298.95	5.74	1.96
NASDAQ COMPOSITE	941.82	978.76	36.94	3.92

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
01/18/95	5832.57	3928.98
02/16/95	5961.54	3987.52
03/15/95	6042.96	4038.37
04/12/95	6270.71	4197.81
05/10/95	6571.21	4404.62
06/07/95	6982.06	4462.03
07/05/95	7437.77	4615.23
08/02/95	7501.51	4665.85

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Technology stocks rode a wild roller coaster for the month of July, but managed to stay on track. Specifically, the MicroTimes Stock Index rose 63.75 points, or .86%, to close at another record high of 7501.51. In comparison, the Dow Jones Industrial Average gained 50.62 points or 1.10%, to 4665.85, and the S&P 500 Index rose 11.54 points, or 2.11%, to close at 558.80.

In our index, advancing issues and declining issues were even at fourteen and there were sixteen issues reaching new 52-week highs vs. zero issues dipping to new 52-week lows.

Turning To Stocks In The MicroTimes Index:

Debate began in the U.S. House on a telecommunications overhaul bill which aims to revise communications laws allowing local-phone, long-distance phone, and cable companies to compete freely. The bill considers allowing the Bell companies to enter into the long-distance industry. Last month, shares for BellSouth Corp. rose 4.25 points, or 6.68%, to close at $67.88.

Tandy Corporation reported sales of its continuing U.S. and Canadian retail operations for July, 1995 of $385.1 million, compared to $308.6 million for the same month last year. Shares for Tandy Corporation gained 6.63 points, or 12.62%, to close at $59.13, emerging as the largest percentage gainer in our index.

IBM Corp. said it has not yet signed a licensing agreement to use Windows 95 on its PCs. The delay in the agreement could hurt IBM in the next few months if competitors beat the second biggest personal computer maker with Windows 95 systems. IBM Corp. increased 10.75 points, or 11.11%, to close at $107.50, representing the largest dollar gainer in our index.

Motorola Inc.'s cellular infrastructure unit said it will spend $30 million to expand its Fort Worth cellular equipment plant and add more than seven hundred jobs by the end of 1996. Last month, Motorola Inc. rose 4.88 points, or 7.70%, to close at $73.88. ■

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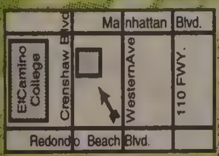

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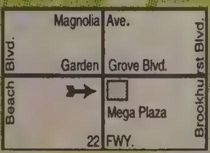

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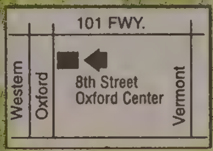

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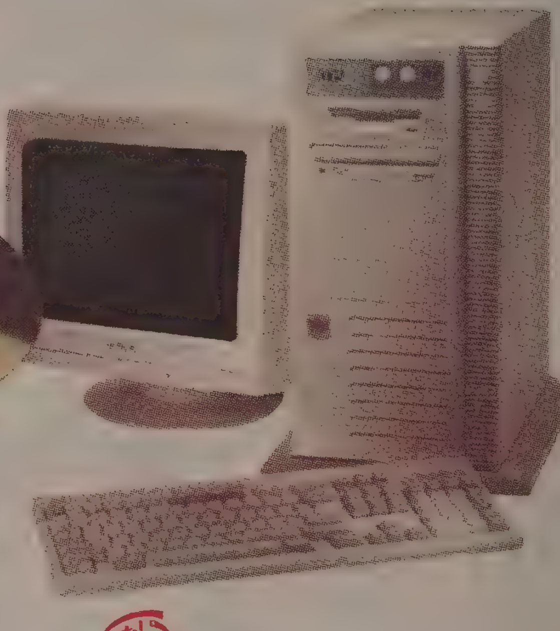

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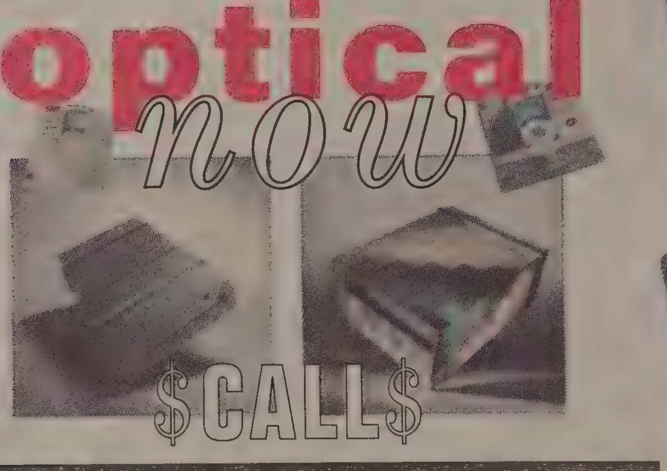

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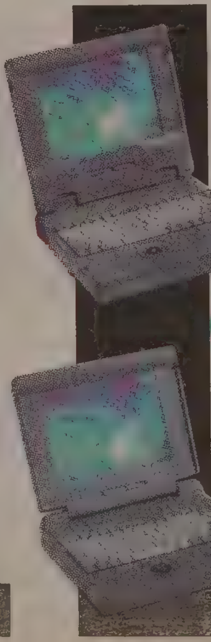

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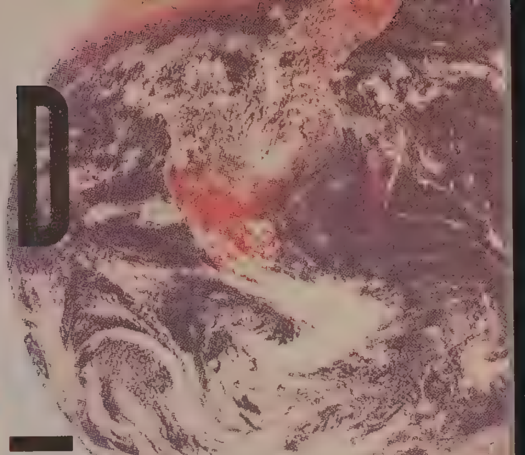

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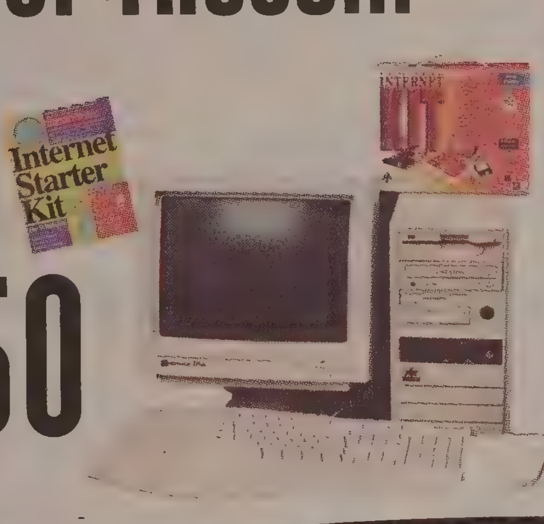

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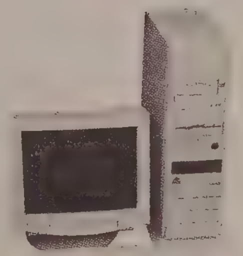

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Maybe!

There is now a petition before the Federal Communications Commission (FCC) that proposes to permit exactly that to develop.

It's like "permitting" people to use the ocean without having to pay some government-facilitated transportation cartel for the right to do so.

This petition would allocate a chunk of broadcast spectrum—a range of broadcast communications frequencies—for free public use under minimum rules designed only to assure fair access and efficient use.

> It's like "permitting" people to use the ocean without having to pay some government-facilitated transportation cartel for the right to do so.

(As a separate battle, maybe we can even grovel and plead at the feet of our government royalty and get them to permit us to scramble [encrypt] our private wireless communications so they would be, in fact, private—unlike almost all other wireless communications including most cellular calls. However, the IRS, DEA, ATF, FBI, NSA, CIA, British Intelligence, Israeli Intelligence, French Security forces, all industrial espionage agents—and some of the nation's most powerful political incumbents [anyone remember Watergate?]—vehemently oppose uncrackable communications privacy for mere citizens.)

The petition has brought this old realizable fantasy of free wireless datacomm one step closer to reality. Just think of it:

The FCC might actually permit unlicensed—perhaps even uncensored—citizens and businesses to share a tiny segment of the huge broadcast spectrum that they so vigorously peddle to the highest bidder and license to frequency monopolists for the license-holder's exclusive, unilateral benefit (e.g. "info-mercials" and ratings-driven demolition of quality competition).

FCC Petition RM-8653

This petition requests a range of communications frequencies for public use as a wireless component of the much-hyped National Information Infrastructure (NII). Although it was originated by Apple's wireless guru, Jim Lovette, it has *nothing* in it for Apple except what everyone gets—free wireless communication channels.

In particular, it proposes that the Commission allocate the 5.15–5.30 GHz band—which the telecomm cartels in Europe have suppressed to only puny-range wireless local area networks, called "HiperLAN"—and the 5.725–5.875 GHz band, which is currently restricted to industrial, scientific and medical ("ISM") devices and licensed amateur radio operators (some of whom provide very valuable volunteer emergency services during disasters, but whom the petitioners' proponent say could share the band—as they now do with the ISM users).

The FCC might deign to allow the public to use this wee part of the usable spectrum—this communications "ocean"—creating a small electronic public park and free information roadways in between those owned by the conduit cartels.

All this scares the hell out of the Baby Bells, the cellular duets that cozily monopolize each region, the high-priced FCC-blessed radio services, the radio and TV broadcast monopolies, and the cable operators and their exclusive, abusive franchises granted by extortionist local governments.

Thus, this will happen only if massive, vocal, vehement, insistent public demands can bulldoze past Washingtoontown's adroit, megabucks-laden, vote-buying Beltway bandits who work night and day to void the public interest in favor of ever-expanding benefits for

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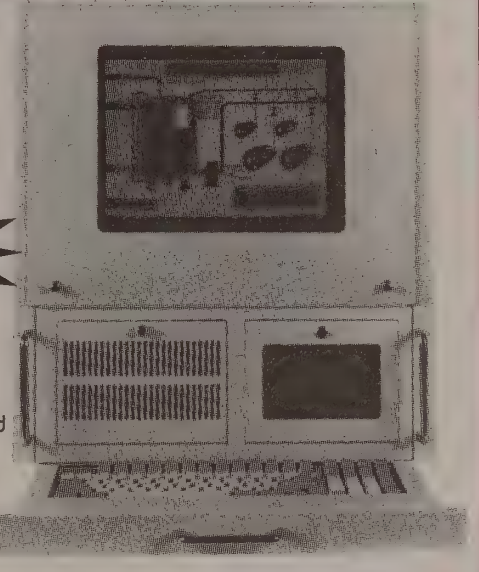

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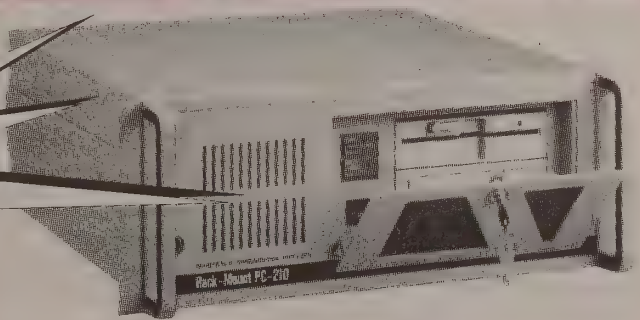

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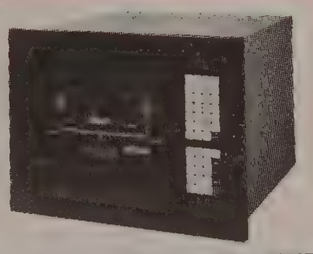

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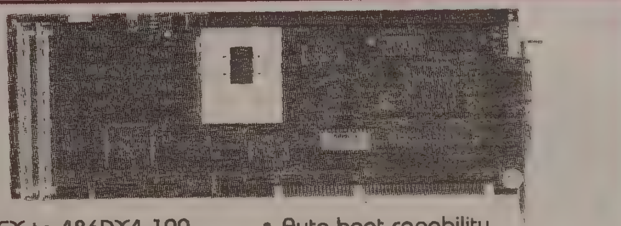

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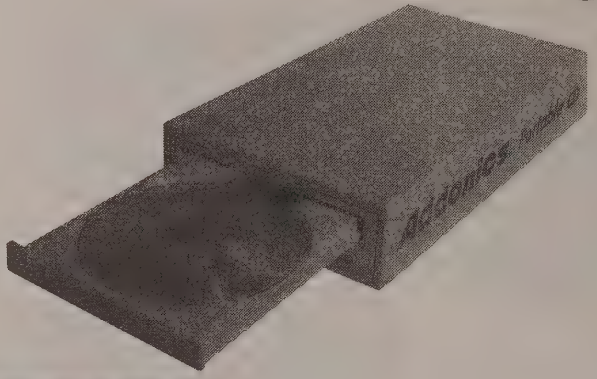

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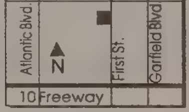

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Fantasies *continued...*

government-licensed and government-facilitated telecommunications cartels.

(Don't blame the corporations. They're doing exactly what corporations exist to do—make every penny they can for their stockholders and executives, by every legal means possible. If government representatives help corporations to screw the public, then it is exclusively our "representatives" who are to blame.)

Schools, Libraries, Others

Some of the foremost beneficiaries of such shared public communications channels would be public institutions including local government—all of which must usually pay hefty by-the-minute "business" rates for most of their local voice and data communications.

Civic-nets. Community networking could also be greatly facilitated. E.g., put up an 18" antenna; aim it at a community hub; plug in a cheap transceiver implementing FCC-specified protocols that assure fair sharing, and you're connected. Full-time. Toll-free. Without needing a second phone line. *If* the FCC permits it.

> **The FCC might actually permit unlicensed—perhaps even uncensored—citizens and businesses to share a tiny segment of the huge broadcast spectrum that they so vigorously peddle to the highest bidder and license to frequency monopolists for the license-holder's exclusive, unilateral benefit (e.g. "info-mercials" and ratings-driven demolition of quality competition).**

Physically impaired. There are already a variety of proposals for how such shared communications frequencies might benefit folks with various handicaps. *If* the government would allow fee-free use.

Business benefits. Even many of those vile, disgusting—tax-paying, job-producing—businesses could find endless benefit from sharing such public spectrum, just as many benefit from shared use of the oceans and rivers, and sharing the very *high*-cost public streets and highways.

All could benefit—except, of course, the current communications cartels, which would then *really* have to compete in metro-region, "local loop" communications.

The Cartels' Alternative

Lest such a good idea move forward in the FCC, the established telecomm giants—under the name of WINforum and pretending that they are even representing the computer industry, which they aren't—have introduced a competing petition (RM-8648) pleading that much of the same spectrum (5.1 to 5.32GHz) be allocated for a wimp-powered, "Shared Unlicensed Personal Radio Network," good enough for in-office LANs but useless for community-wide communications.

The period for initial public comment closed July 10th (you didn't think

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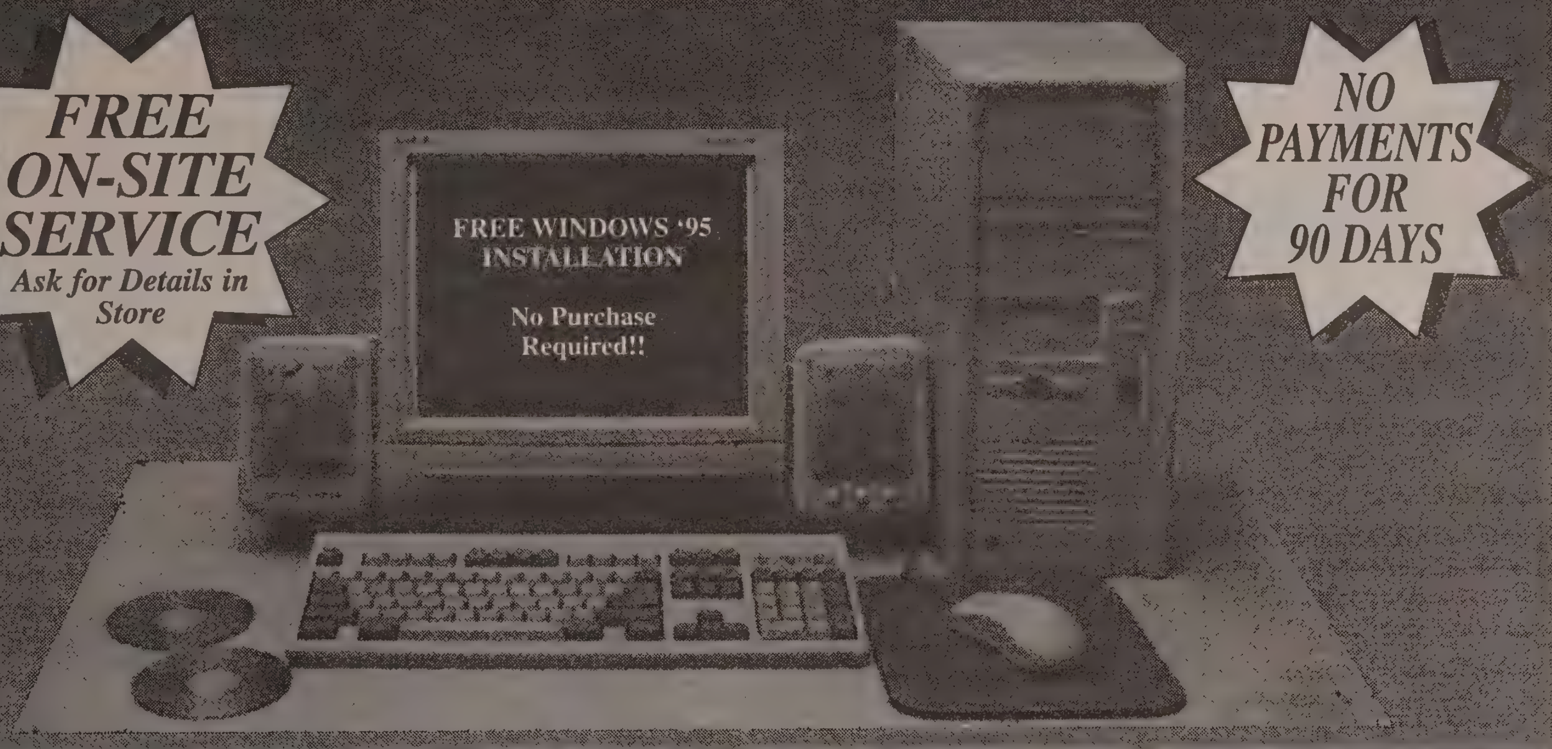

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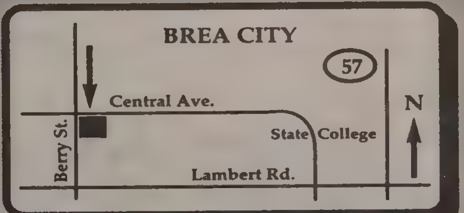

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Fantasies *continued...*

this was going to be widely publicized, did you?). The period for initial public response closed July 25th.

But there's still ample opportunity for substantive howls and input—not only to the FCC (see end of column), but also to our Congress-critters who keep bleating about how they want to support competition, innovation, job creation, government efficiency, and so on.

Next Steps

Assuming this petition survives the initial comments and responses, the next formal step will be for the FCC to put out a Notice of Inquiry (NOI). This will start the long formal rule-making cycle.

In order to make this a public issue—rather than leaving it in the comfy domain of the Beltway bandits—we need to get the public to respond whenever they can and however they can. The Commission will not discard comments that are submitted in anything close to a normal format. Anything that is filed after the now-past comment dates will be treated as *ex parte* communications—which is just fine for comments from concerned citizens, community groups, non-telecomm businesses, and local officials.

If all this continues to move forward, there will eventually be a technical forum created to begin addressing a *major* collection of technical problems (don't think this is easy!).

But if we can just get the FCC to support the notion of metro-range, *nonproprietary*, shared, public wireless communications—then the people will come.

Details & Action

A copy of the petition and extensive ancillary information is available on Dewayne Hendricks' WWW site at *http://www.warpspeed.com/* . (Dewayne is another major, longtime wireless datacomm guru.)

After reviewing it, you can help it happen by sending your signed original comments, in favor of RM-8653, and a copy to:

Secretary, Federal Communications Commission, 1919 M Street, N.W., Washington, DC 20554. Use letterhead if appropriate.

In a late-breaking development, the FCC has agreed to accept emailed comments at these addresses:

RM-8648@fcc.gov (WINForum)
RM-8653@fcc.gov (Apple)

You can also fax your comments, including signature, to Apple's legal counsel in Washington—(202)429-4912—and they will deliver them to the FCC.

And don't forget to tell your congressional representatives and the White House that we want a public share of the nation's bandwidth!

On July 12th, *The Washington Post* ran a major article about the proposal—complete with pictures of how it could work—captioned, "A Toll-Free Lane on the Data Highway?"

It's time to begin construction. ■

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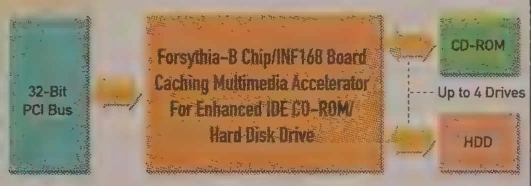
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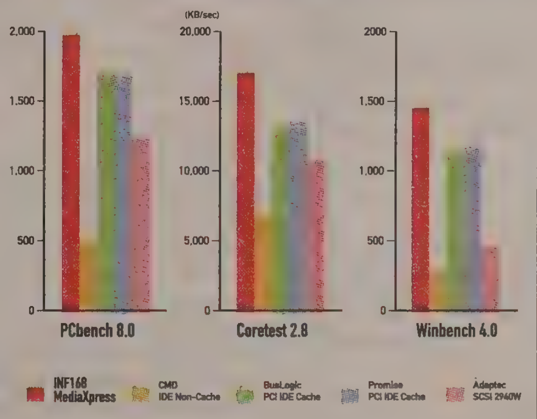

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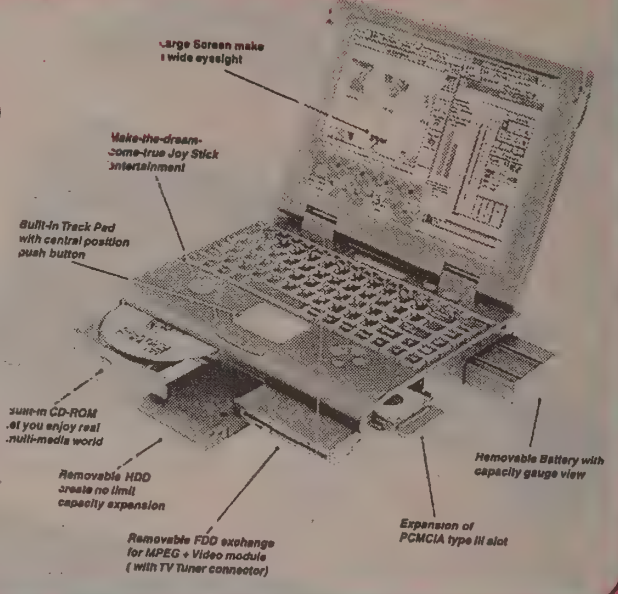
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Letters

Internet Censorship: Just Say No

I just had to respond to somebody after reading Mr. Warren's article ["With A Congress Like This, Who Needs An Ayatollah?", Issue #139).. I am so glad that someone else feels about this issue like I do.

I do not understand why Congress is so worried about this issue when there are so many real pressing problems they should be dealing with. If the country is going down the tubes because of "obscene" material flying down the superhighway, then we are already too far gone to be saved.

More to the point, Mr. Warren is correct in saying that controlling electronic communications is, in effect, taking away the last medium in which common people can have uncensored mass communication. The 1st Amendment does not state that we need permission from 535 bought and sold "representatives" in order to speak our minds.

The Republicrats came to power saying they were going to remove the burden of the government from our backs. They did not tell us they were going to place it on our fingertips.

Gerald Winston
Alameda
via Internet

Is The Third Wave A Mirage?

First, it was Marshall McLuhan with his The Medium Is The Massage where he put too much emphasis on the medium and didn't take into full account the content; and now Alvin and Heidi Toffler with their Future Shock and their First, Second and Third Wave stuff, are again looking at the externals (technology), while not taking into full account the content.

The Tofflers define "future shock" as both "inability to deal with change" and "information overload," which may have nothing to do with change. This can be confusing at times.

For example, the problem with Congress is that, in their effort to micromanage the economy, the members of Congress must deal with so much information that they are simply overwhelmed. The problem here is not change but sheer volume of data. That is why they depend on their staffs. This is one good argument for limiting the federal government, not future shock.

If we define Tofflers' "Waves" by their content, we find that "First Wave" refers to family farming and crafts, "Second Wave" to mass production, and "Third Wave" to information storage and transfer. All three "waves" were already present in bronze-age Egypt using the technology available at the time. So, why is it surprising that "Third Wave" products can come from present "First Wave" societies, as long as the technology is available? Much of software production, even in the U.S., is by craftsmen, the same as First Wave production. That's one reason that "First Wave" economies often have no trouble producing "Third Wave" products through the aid of technology transfer.

Since when should economics textbooks be changed? Knowledge has always been a factor in production—as a subset of labor. The factors of production remain: land, labor, and capital.

In closing, while Alvin and Heidi Toffler and futurists like them may not always be correct, they are correct often enough so that an interview with them exercises the gray matter. Thanks for the thought-provoking article.

Karl W. Randolph
via Internet

Advice For Multimedia Game Creators

Just about every multimedia release I've seen in the stores in the last six months has gotten it all wrong. Multimedia game designers have made some dangerous assumptions about the buying public. These misconceptions must be corrected or PC-based multimedia entertainment will go the path of 8-track tapes and quadriphonic sound systems.

Here it all is in a nutshell: Write better stories. Hire experienced scriptwriters. It's worth the expense. Despite all the talk of "Illiterate America," people still love a well-turned phrase. The most exciting elements game creators can bring to the medium are believable characterizations. Populate your stories with fleshed-out, well thought-out people who interact with palpable spark, not bad sit-com dribble. Make us care about the people you invent. Forget the state-of-the-art multimedia glitz, the "Quick-Time Videos," "Real Hollywood Actors Digitized onto Computer Scenery."

People will respond to a good story, a good adventure tale with some depth, humor, and a little bit of literary worth. There are good writers available to you, but you're not hiring them. You're spending your whole budget on special effects, not on special moments. Sadly, so many games today are a triumph of technology but a failure of imagination.

Game creators are still writing plot lines to accommodate a "present in inventory\not present in inventory" kind of programing. For example, "Go find the Golden Crest. When you return to me with the object, I will give you . . . ." Enough is enough. All the new games regurgitate this programming device in the same unimaginative way, and do very little to disguise the simplicity of the game's basic engine.

Most of the game puzzles do not contribute the the storyline's larger framework but are a Long March to bring together a set of unrelated objects. A search for missing objects on a computer screen does not constitute a good time no matter how many Hollywood actors you've hired to do the on-screen searching, puzzling, or shooting.

First and foremost, your game must have something interesting to say. It's not necessary to bring to a game "all new ideas," but at least struggle to bring an intelligent twist to old ideas. A good game should play well and get everybody excited even at its simple, formative stages, just as a good song will sound promising on a mere acoustic guitar or piano. If the game doesn't have a spark until you've hired Ms. Playboy to be the

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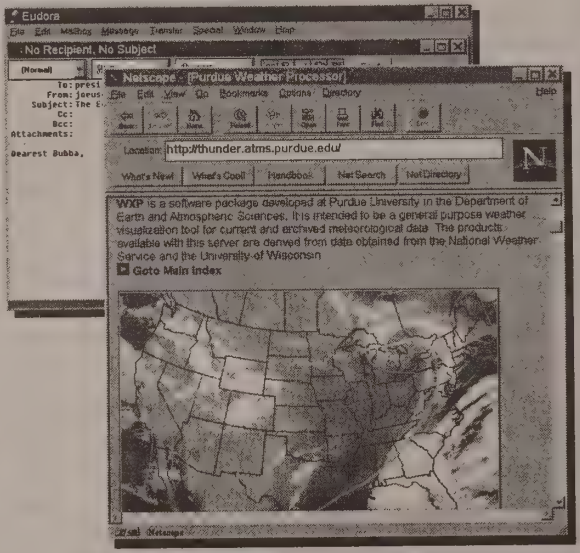
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Letters *continued*

lead character, then you don't have a promising product.

There are a few well-written new computer games. Full Throttle, for example. After my kids were done playing that game, they talked about the characters, how the "President of Corley Motors" really cared about the biz but was undermined by heartless cronies. The way that contrast in personalities was played out on the screen was memorable, funny, and clever. It was also done with cartoons, probably on 1/3 the budget of The Daedalus Encounter.

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After my kids played Under A Killing Moon, they walked around aping Tex Murphy's lines for days, because he was a genuinely funny character. This makes the game stick in their minds long after the other usual computer-game heroes and villains have been wiped off the hard drive forever.

So . . . when it's time to start your next project, go ahead: Spring for a real writer.

Winston Steward
via AOL

Mr. Steward is the author of Every Family's Guide to Computers, published by Ziff-Davis Press.

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A Printer For Your Pocket

The Pentax PocketJet Makes Traveling With A Printer Easier

The new Pentax PocketJet offers laser quality in a printer so small that you can take it anywhere you take your portable computer. It is roughly the size of the NiCd batteries your portable computer required only a few years ago. This printer measures 10" x 2" x 1" and weighs just over 1lb., including its rechargeable NiCd battery.

While on-the-go computing often requires access to a printer, many of us decided that it was simply not practical to carry one along in our travels. We would either connect to someone eles's printer or wait until we got home to print out the documents. But there are those times when you really do need to print a hardcopy of a document on the spot. Many salespeople, for instance, carry small printers to print a contract. Pentax's new PocketJet printer fills this gap. It is so small that it can fit into a briefcase or computer carrying case. And while it comes with a power supply that can either power the printer or recharge the battery, for many trips, you can easily get by with just the printer, its battery pack, and the special thermal paper it requires.

I have not been a big fan of battery packs for printers because you seldom need to print in the middle of the airport, but with this printer, having a battery pack makes good sense. If for no other reason than that you will be able to eliminate having to cart around a power supply. The battery pack is small and powerful enough to print over thirty pages of text. All you will need to carry is the printer and the supplied cable that connects to a parallel port on your computer and the miniature plug on the printer.

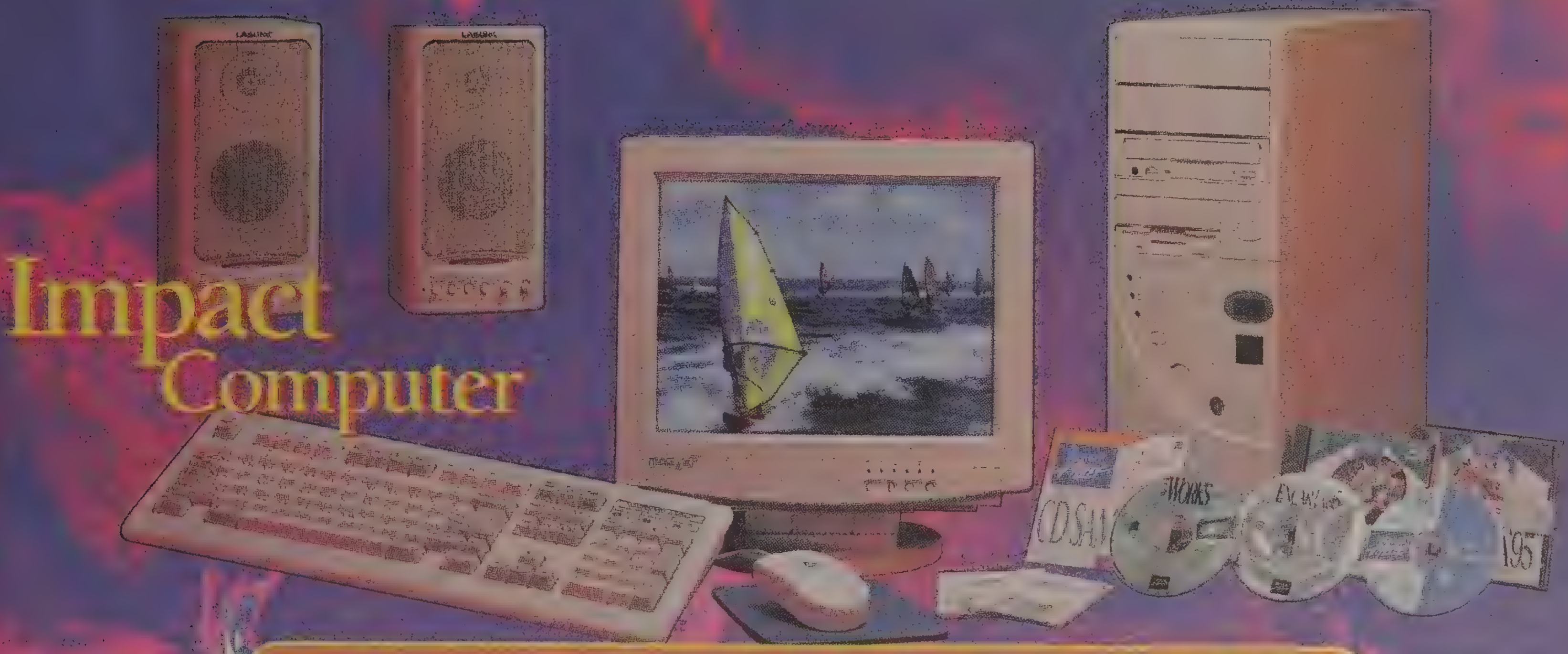
> **Small printers always have tradeoffs. In this case, the price you pay is that the PocketJet uses a special thermal paper.**

The battery recharges in seventy minutes. This means that someone in the field can easily recharge upon return to a room and be back in business before the next day. There is also the option of buying an additional battery pack ($37.99). The printer comes with a nicely fitted vinyl carrying case that has a small compartment for an additional battery. The packs weigh mere ounces and are about the width of a couple of pencils stuck together. An additional pack does not significantly increase either the weight or size of the carrying case.

Many of the small printers I have examined were so slow that it was a chore to print on them. They were useful only for occasional printing. While I suspect that screenwriters will not want to print out on this model either, it does have an output of three pages per minute. Its drawback is that there is no cut sheet feeder, so you have to load each sheet separately. For occasional forms or letters, it works perfectly.

Small printers always have tradeoffs. In this case, the price you pay is that the PocketJet uses a special thermal paper ($7.99 per one hundred sheets). I found

Impact Computer



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Pentium	90MHz	$1680
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Pentium	75MHz	$1349
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Pentium	90MHz	$2519
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Laptops *continued...*

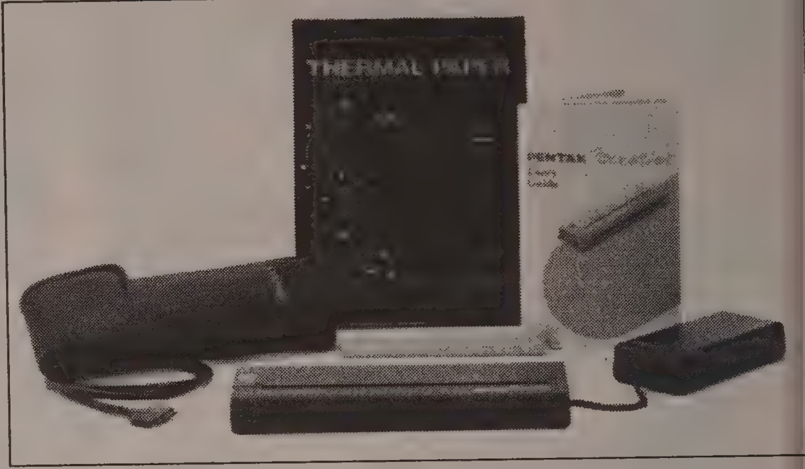
this paper to be marginally acceptable. While it is not a beautiful bond paper, neither is it the kind of thermal paper that old fax machines spew out. This paper remains flat and is not heavily coated. The printed output is beautiful, with a resolution of 300 x 300 dpi. The cost of nearly 8¢ compares favorably with other portable printers that generally weigh more and utilize some kind of ribbon or ink cartridge that ends up costing more per page than this system.

When Pentax originally introduced this printer, it was designed to print letter-size paper only. Many markets, such as real estate and accounting, required legal-size paper. This new version will print on either letter- or legal-size paper ($9.99 per one hundred sheets). If this is not imprtant to you, the original version is still available.

Pentax has designed this printer to work with a LaserJet II printer driver, which makes it easy to set up your portable, running Windows, to print on this unit. If you work in MS-DOS, a disk is included that has the drivers you will need. All in all, the PockeJet package is well designed and carefully thought out.

Pentax also has a great warranty. If anything goes wrong, simply call the company and give them your credit card number. The next day, you will have a replacement unit. It is your responsibility to return the defective unit within thirty days. After they receive the unit, they tear up your credit card information. If you fail to return the old unit, you are charged for the replacement after thirty days. This warranty is in effect for a year, but for an extra $49 you can extend it for an additional two years. You must extend within the first year if you want to take advantage of this option.

I now plan to travel with a printer. It takes so little space that it makes no sense to travel without it. For larger jobs, I will still have to connect to my friends' systems, but for the occasional letter, this will work just fine. ■



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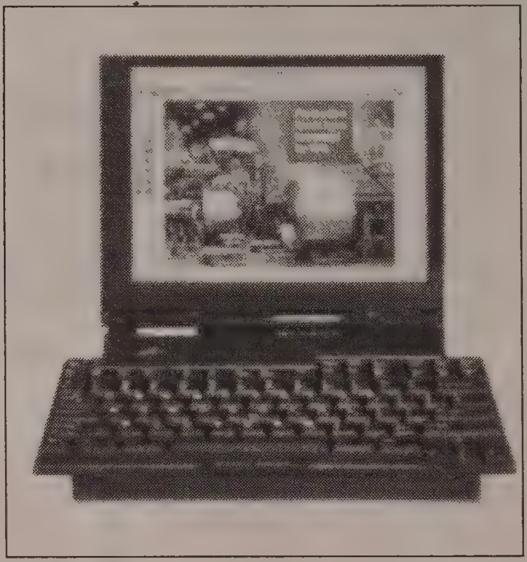
Computer Of The Month:

IBM's ThinkPad 701



From time to time, a truly revolutionary portable comes to market. This time, IBM climbs to the top of the heap with its newest entry that does what was only a dream in the not too distant past. It used to be that the practical size of a portable was limited by the size of the keyboard and the size of the display. Thus, the ultrasmall units were simply not practical for getting real work done—at least for someone who relies on a keyboard for word processing. But IBM has just broken the size barrier with the ThinkPad 701.

Only slightly larger than most subcompacts, the ThinkPad 701 offers a full-size keyboard and a beautiful 10.4" color display—as large as any on the market. IBM accomplished this by a clever keyboard design that splits the keyboard invisibly when it is fully extended. When you close the

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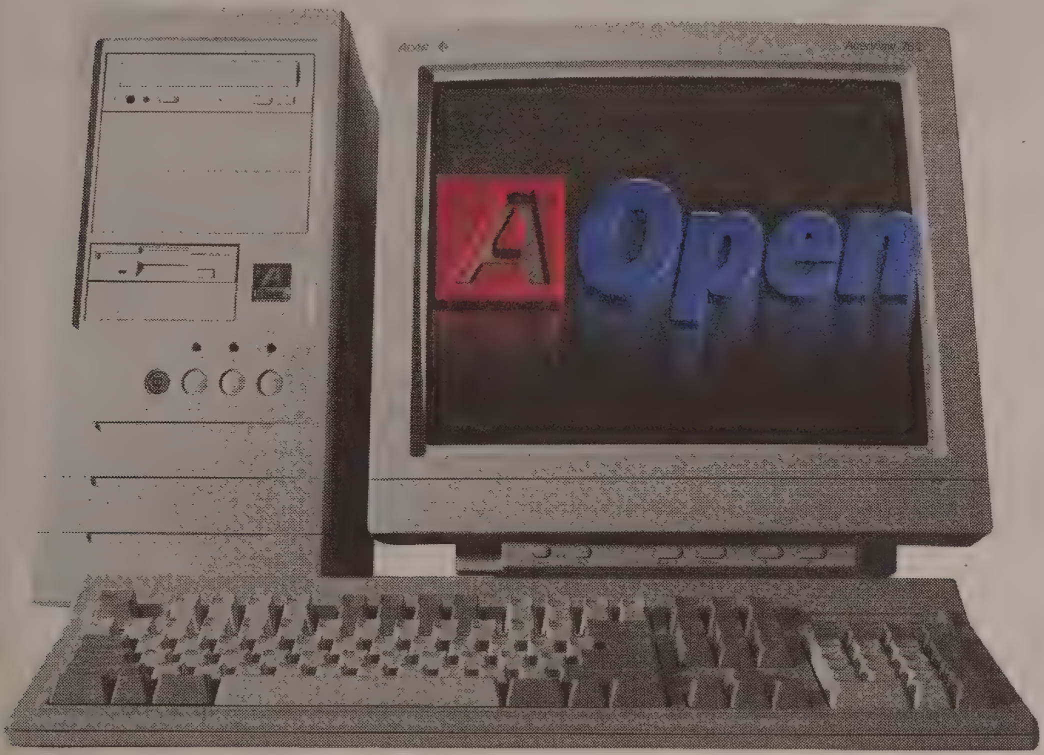
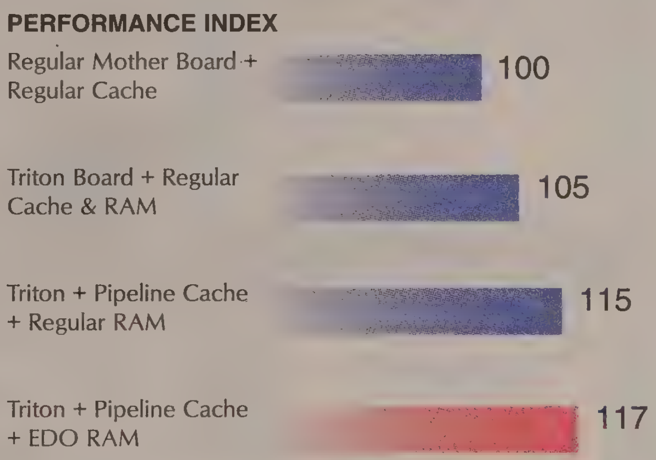


EDO RAM, Pipeline Burst Cache, TRITON ???



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cover of this portable, the two halves of the keyboard pivot to fit into a smaller space for storage.

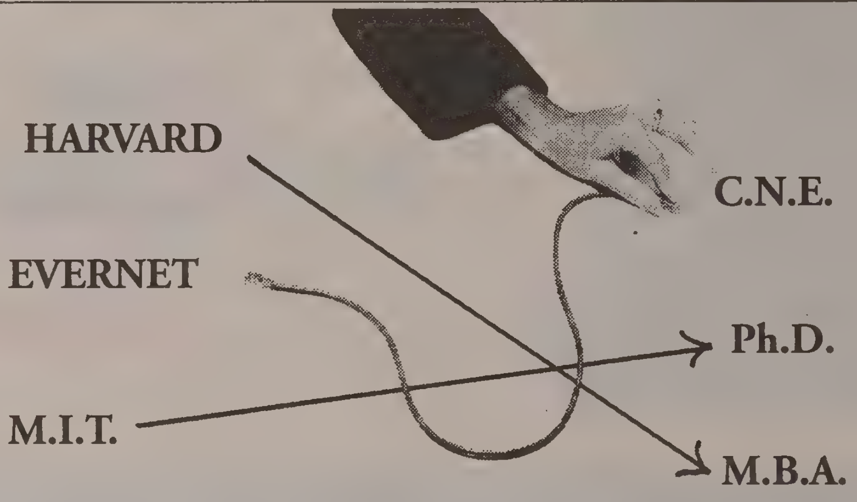
This may sound impossible, but seeing is believing, and, this represents a real breakthrough. Finally there is a small computer—4.5lbs., measuring 9.7" x 7.9" x 1.7"—that actually has a full-size keyboard and full-size display. But this is only the beginning. This is a powerful portable filled with many hardware and software features. The basic machine is powered by an Intel 486 CPU, available in either 50MHz or 75MHz configurations. It comes standard with 8MB of RAM, expandable to 24MB.

Hard drives are available in sizes ranging from 360MB all the way up to 720MB and are removable. Having a removable hard drive serves a number of functions. At the very least, you can insure security by removing it. Users with more than one ThinkPad 701 can more easily carry their work back and forth, and finally, the hard drives are easily swapped for additional storage and upgrade. The basic system also comes with an external floppy drive, which means you can travel without a floopy drive. I like this because it cuts down on the size and weight of the portable you carry around.

The ThinkPad 701 runs on either AC current or a nickel metal hydride battery pack. Depending upon your setup and usage, the battery will last between two and seven hours. Recharge time is roughly one hour. Nickel metal hydride batteries do not have the problem of the older NiCd batteries that needed to be fully discharged before recharging in order not to wear out the battery . IBM boasts that its new circuitry actually makes it preferable not to fully discharge the battery before recharging. It is not clear if this is simply the characteristic of the newer batteries or whether IBM has a new innovation. In either case, it makes running a portable on batteries a good deal more convenient than previously.

The back of the portable contains a single connector that allows you to attach a Multiport II strip containing all of the standard ports: serial, parallel, video, external keyboard, mouse/numeric keypad, and audio in and out. This strip, which fits nicely across the back of the unit, can be carried or left aside. There is a second parallel connector on the side of the unit that can be used when you do not have the Multiport II along. When you use the side connector, which also is the connection for the floppy drive, you must use a supplied cable that converts from a mini plug into a standard parallel port. .

This design is excellent. When you are on the road, you can leave the Multiport II strip behind and still have access to a printer. A separate mouse is not necessary because IBM includes the latest advancement in its TrackPoint technology. This button, which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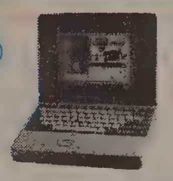

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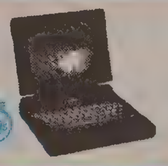

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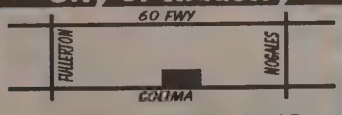

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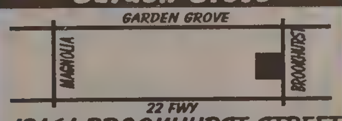

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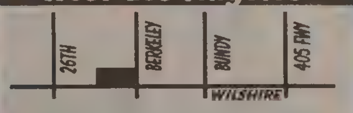

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looks like an eraser head, sits in the keyboard below the G and H keys and moves the cursor smoothly in whichever direction you exert pressure. While I have always liked the TrackPoint, this newest incarnation is a significant improvement over the original version.

IBM has included an infrared device that allows you to send data to other similarly equipped devices. This option is becoming increasingly popular and is extremely useful for working with printers. PCMCIA slots offer another input/output option.

PCMCIA slots are in addition to the built-in data, fax, voice modem. IBM has gone out of its way to maximize the telephone-computer connection. The ThinkPad 701 is designed to integrate telephone functions. It can serve as an answering machine and a speaker phone.

Only slightly larger than most sub-compacts, the ThinkPad 701 offers a full-size keyboard and a beautiful 10.4″ color display.

This is one of those portables that comes with so much preinstalled software that I can only hint at what is there. In addition to MS-DOS and Windows, however, you will find OS/2 Warp. Additionally, there is an array of application software. While the ThinkPad 701 is far from an entry-level computer, if you are interested in a state-of-the-art system, don't overlook Big Blue. ■

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STEP ONE: PICK A SYSTEM.
○ PC COMPATIBLE ○ MACINTOSH
○ PC NAME BRAND ○ Network WORKSTATION
○ PC NOTEBOOK ○ Network FILESERVER
○ MACINTOSH NOTEBOOK

PICK YOUR PREFERENCES
○ Name Brand
○ Compatibles
○ No Preference

Step 1: Enter PC System Brand Name & Model #. If Preference
Step 1: Enter NoteBook Brand Name & Model #. If Preference

Quantity / Choices
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ 10 or More ○

My Budget For System is ○ Under $1000 ○ $1000 to $1999 ○ $2000 to $2999 ○ $3000 to $3999 ○ $4000 to $4999 ○ Over $5000

Call Me For A More Detailed Quote. ○
Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: CONFIGURATION REQUESTS:
CPU ○ PENTIUM ○ 486 ○ 386 ○ MAC QUADRA/PERFORMA ○ MACPOWER PC
CPU MHz SPEED:
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 133 ○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40
BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA
CACHE ○ 64K ○ 128K ○ 256K ○ 512K
RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB
MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI ○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI ○ 20" ○ 21" ○ Multisync
HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+ ○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+
FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB
FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps
CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower
VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB
POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard ○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen
OPERATING SOFTWARES NEEDED: ○ DOS ○ OS2 ○ Mac ○ UNIX ○ MS Windows

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately
CD ROM DRIVE: ○ Internal ○ IDE ○ SCSI ○ External
SPEED ○ 2X ○ 3X ○ 4X
CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+
○ BRAND NAME ○ No Brand Name Preference
CD ROM Brand Name and Model Number
SOUND CARD ○ 16Bit ○ 32Bit
SPEAKERS ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4
SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color
PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV
○ Audio Capable ○ Docking Station ○ Fax Modem ○ Extra Battery

STEP FIVE: NETWORKING NEEDS: ○ Please Contact Me on My Networking Needs Indicated Below
○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

STEP SIX: UPGRADES and PERIPHERALS. ○ Ink Jet Printer ○ Tape Backup ○ Accelerator
○ Color Printer ○ Dot Matrix Printer ○ Laser Printer ○ Flat Bed Scanner ○ Digitizer ○ Hand Scanner

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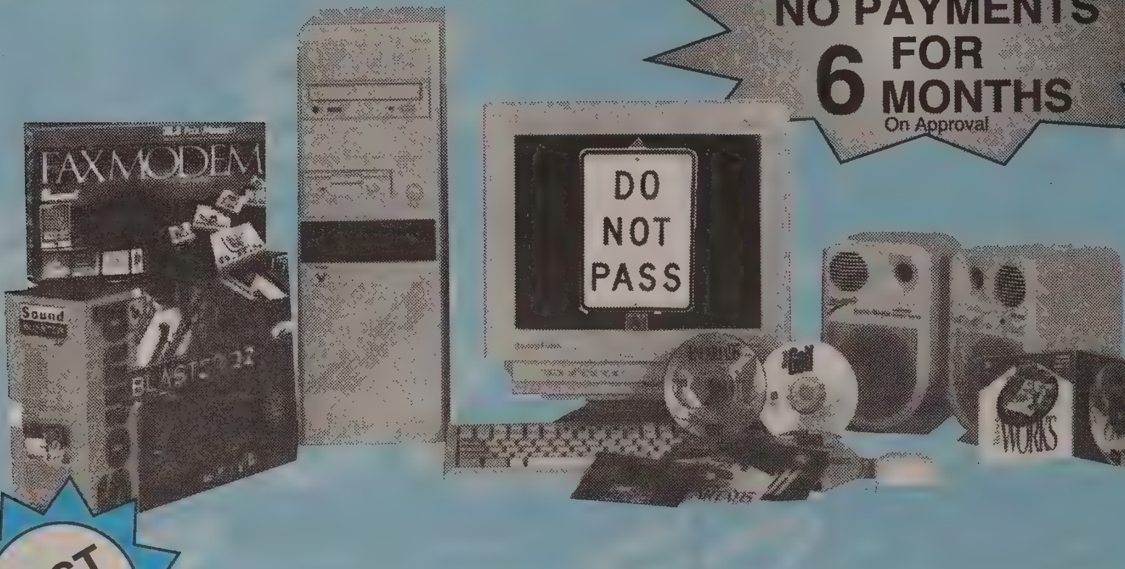

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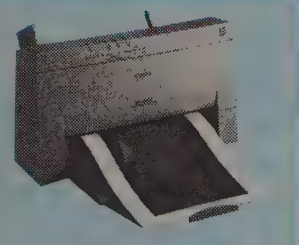

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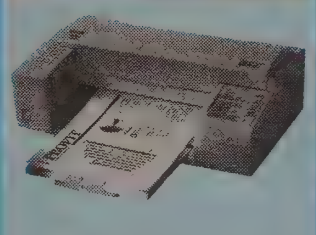

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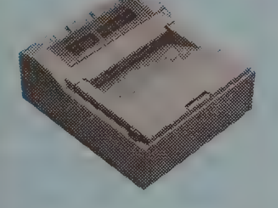

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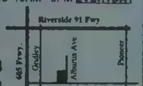

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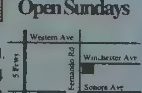

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Telecommuter Security

How To Overcome Telecommuting-Induced Isolation

Isolation is one of the most commonly recognized negative aspects of becoming a telecommuter. So amid continuing reports of isolation bothering newcomers to telecommuting, and rapidly increasing numbers of newcomers, the topic has been bumped to the top of my list.

Telecommuting-Induced Isolation is a feeling of being cut off from friends and colleagues at the office where one has habitually worked. Although telecommuters frequently report a degree of exhilaration at being free of external influences, they nearly always experience at least some period of slight sadness or depression. This is most likely due to the general reduction in stimulation they endure after leaving a relatively populated workplace for a relatively unpopulated one.

People who have spent years, or decades, in a conventional work situation and then switch to a telecommuting schedule often find Telecommuting-Induced Isolation the most difficult part of the change to accept. They find their long-established habits, thoughts, and behaviors simply aren't appropriate to working alone or in a smaller, less supportive environment.

Telecommuters who have successfully overcome their feelings of isolation, generally by replacing their office-oriented work habits with new ones, say the biggest hurdle is just to recognize the source of the problem. The depression and loneliness tend to be far more devastating when you feel they have no specific source. Once you recognize these feelings as a natural response to your markedly changed work-a-day circumstances, they almost always seem far less potent and much more amenable to simple remedies.

> Many employers of telecommuters haven't even begun to consider their insurance problems or how to solve them.

Some of the simplest and most effective remedies for Telecommuting-Induced Isolation include making stronger efforts to:

Stay in touch with activities at—and news from—your accustomed office. One good strategy is to ask one or two of your closest colleagues to help you stay aware of office developments. Call them daily and talk for a few minutes specifically about all the office intangibles that aren't covered in the usual memos you receive and project-oriented meetings you attend.

Maintain personal relationships. Portions of all the conversations that take place at the office—the jokes, the "how are you" discussions, the follow-up questions to previous conversations, and more—do a great deal to help people maintain personal relationships among their coworkers. Much of this disappears for newcomers to telecommuting. It's too easy to fall into the trap of focusing all your talk on projects and assignments, to the detriment of your personal relationships. If you can learn to banter and have personal mini-conversations via telephone, fax, and email, you can greatly reduce your feelings of Telecommuting-Induced Isolation.

Speed up the two-way communications surrounding your work. Often, telecommuters miss the immediate feedback and suggestions they normally receive from coworkers when everyone is working at the same location. In contrast, telecommuters often send their memos off through computer or fax systems, then wait until the following morning—or longer—for a reply. It takes a special effort, but telecommuters can and should be specific about asking for faster turnaround times from office-bound colleagues. It's also useful to be more assertive about calling and asking for replies to specific messages. Once everyone gets used to maintaining relatively rapid conversations via email and fax, much of your Telecommuting-Induced Isolation will disappear.

Working At Home Requires Safety, Insurance

Get together fifty different companies in fifty different industries and they'll all have at least one thing in common: a concern for security. They're worried about the safety of their employees. They're interested in protecting their information from prying eyes. They want to prevent their equipment and supplies and services—copying, telephones, and everything else—from being stolen.

No doubt one impediment to more rapid expansion of the "telecommuting corps" is that security is more difficult for employers to obtain at telecommuters' homes than at their centralized offices.

That's why more and more telecommuting agreements name the telecommuter to be responsible for protecting the company's information, hardware, and other assets from theft, fire, and damage. Of course, in practice telecommuters are rarely asked to repay a company for stolen or damaged equipment.

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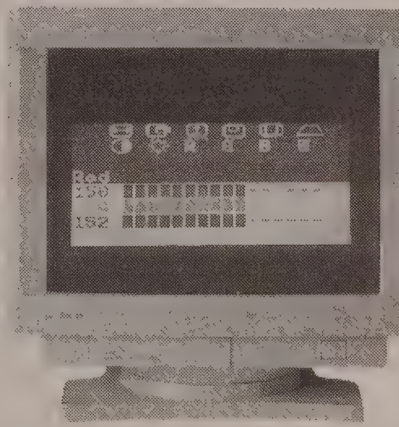

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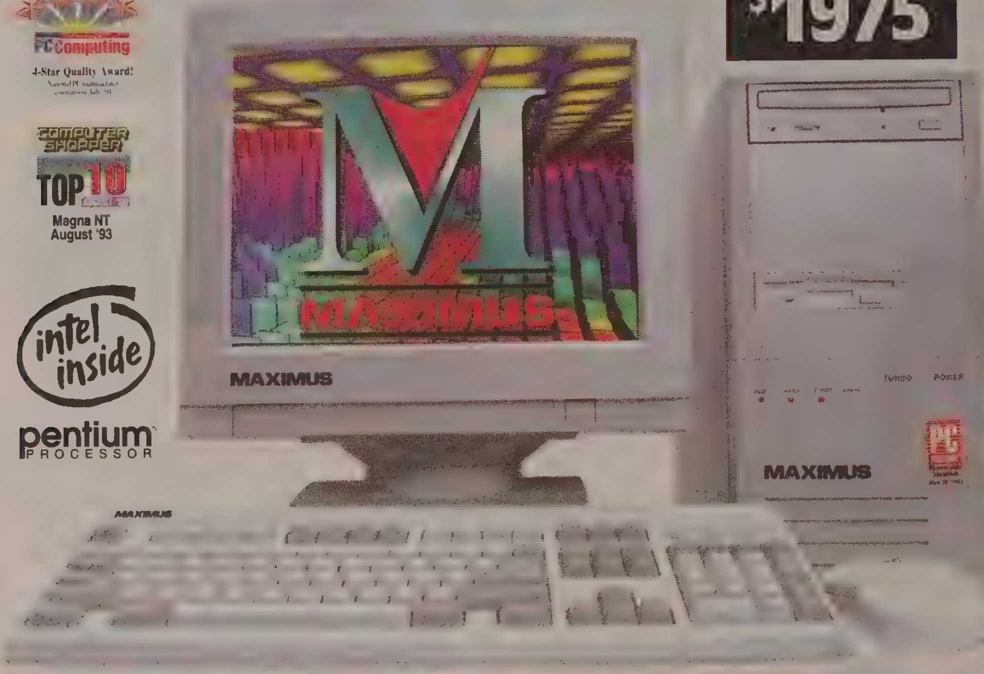

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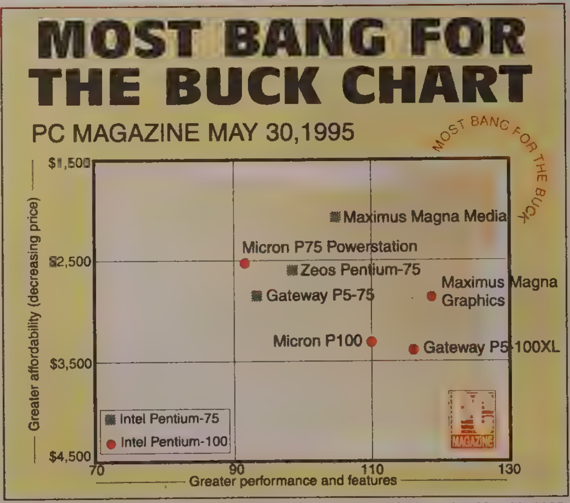

The closer to the upper right corner. From the pages of PC Magazine May 30, 1995

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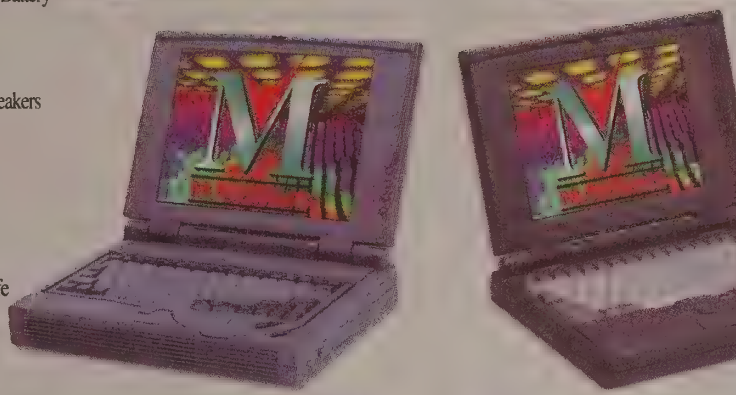

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COMPUTER SHOPPER June 1995

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Telecommuting *continued...*

But the clauses at least give company managers a greater feeling of security.

Telecommuters who want to cover themselves against this potential liability should modify their homeowner's or renter's insurance to be sure it includes all the work-related equipment they've taken home from the office. Many such policies explicitly refuse to cover equipment "used for business," so talk things over in detail with a knowledgeable insurance agent who can sell you real protection that will pay off in a pinch.

Coverages you'll want to consider include theft, fire, accident, workers compensation, and liability.

A good place to start is with your employer's insurance experts. They can explain what coverages are automatically extended from the home office to your telecommuting workplace. Don't expect an easy time of it, however, because there are no cut-and-dried answers to questions about insurance for telecommuters. In fact, many employers of telecommuters haven't even begun to consider their insurance problems, or how to solve them.

But that doesn't mean you won't be asked to come up with a hefty sum in the event of a problem, so keep digging for details.

For example, some employers' insurance will extend coverage to situations where people meet at your home during regular business hours to discuss a particular project or business activity. But they may be less clear about insurance coverage when the same meeting takes place in the evening, or on a weekend, or when one of the meeting participants happens to be a friend who comes for lunch before or stays to dinner afterwards.

In certain cases, an employer's insurance policy covering business done at home may create requirements not unlike the IRS, which make it a violation of the rules for you to use your telecommuting workplace for anything but business activities. Having a TV, a refrigerator, or a couch in the same room with your desk may automatically invalidate the coverage you think you're receiving on business-related equipment and activities.

It's worthwhile to investigate your own insurance coverage. Will your present policy cover a fax machine or file cabinet owned by your employer but used in your home to support

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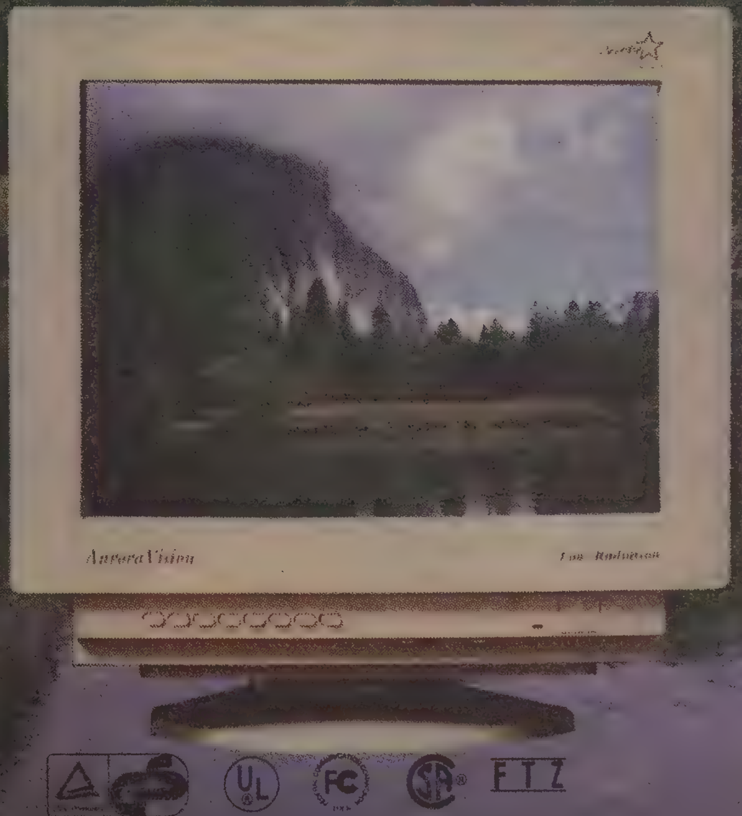

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HEADQUARTERS

Telecommuting *continued...*

your telecommuting? What about office equipment? Business information?

You may be able to increase or modify your existing insurance coverage, or you may need a special policy that covers the situations that come up when you telecommute. One company, called SafeWare (1-800-848-3469), specializes in writing policies only for computers and computer-related equipment. They're happy to cover computers used for business, laptop computers used for travel, as well as printers and modems. They're not afraid of coverage for equipment destroyed by power surges, either, along with more conventional dangers like fire and theft.

Wherever you get the insurance to cover your telecommuting activities, you'll almost certainly have to pay more than you're paying now. Before you authorize any changes or incur any costs, you might want to discuss with your employer how you will divide up the extra premiums involved.

The most difficult problem is probably the business information stored at your telecommuting workplace: computer files, customer records, confidential data, proprietary secrets, and other forms of business information can be literally priceless. If these are lost or—even worse—copied or stolen by the competition, it doesn't take a great leap of logic to imagine an employer's reaction to the unlucky or unwary telecommuter who should have been more responsible.

One good way to protect yourself a little better is to use all the software password protection available. Many programs—including Microsoft Word and Excel, along with most other major applications—afford enough password protection to prevent family members and casual visitors to your telecommuting workplace from opening your files without your permission.

There are also software systems—like MenuWorks Security from PC Dynamics (Westlake Village, CA)—that make it far more difficult for anyone to gain access to any information on your computer without your explicit directions and help.

Data transmission creates its own security concerns. Many companies use "dial-back" systems and passwords on all network accounts to fight unauthorized access. But wires can always be tapped, and even when you are not the single target, millions of computer network messages—containing passwords and other important information—are subject to being scanned and intercepted by anyone from thoughtless hackers to determined industrial spies.

Countermeasures generally rely on using some form of simplified, user-friendly data encryption for all messages passing to and from telecommuters.

Of course, you can't really protect anything of value from a determined thief. But it may nevertheless prove worthwhile to put a heavy-duty lock on your telecommuting workplace doors

continued on page 222

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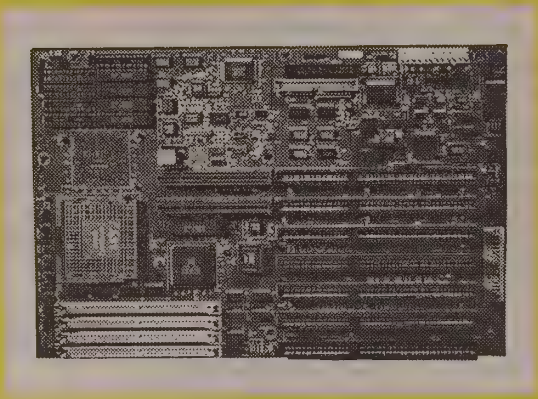

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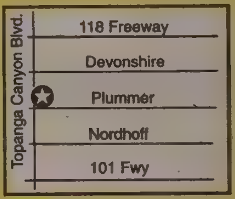

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Stupid UNIX Tricks: #256 In A Series

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A plaintive voice left the following message on my answering machine at work today:

"Can you help me?

"I have a file that contains a complicated command line for a program that I need to run often. Unfortunately the file contains a bunch of other stuff that I don't usually need to execute more than once a day. I know that I can use grep on the file and that it will print just the command line that I want to execute.

"Is there any way I can tell UNIX to execute the command line that grep returns?"

This is precisely the sort of problem whose solution is likely to be a Stupid UNIX Trick.

Stupid UNIX Tricks are frequently not all that stupid. In fact they tend to be very clever. The difficulty is that Stupid UNIX Tricks are ways of doing things so obscure that you feel stupid for needing to do them in the first place. The supreme paradox is that the tricks to do these obscure things seem to be an intentional part of the design of UNIX.

Stupid UNIX tricks are something like the Holy Grail, and given the chance to hunt for one, I dropped everything to look for a solution to the caller's problem.

Commands

Of course, it's important to think things carefully through before such a quest. The logical starting point was to ask, "So, just how do you execute commands on UNIX anyway?"

That seemed easy enough: ordinarily UNIX commands are invoked by name. You type in the name of a command and any command line arguments the command expects, and press return. This works because when you logged in to UNIX, a "shell" program was started for you. The UNIX shells (there's more than one) are programs that look for command names. Shells expect command names as input, and when they receive any input, they attempt to execute it. Sometimes this input is the name of one of the shell's built-in commands, sometimes it's the name of a program external to the shell. In either case the shell executes the named command.

So: UNIX commands are executed by giving the command's name to a shell as input. If the keyboard were the only source of input for the shell, that would be the end of the story, but of course, it's not.

> Stupid UNIX Tricks are frequently not all that stupid. In fact they tend to be very clever. The difficulty is that Stupid UNIX Tricks are ways of doing things so obscure that you feel stupid for needing to do them in the first place.

In matters of input and output, UNIX is extraordinarily flexible. Most UNIX commands can read their input from or write their output to files. The use of files to control input and output of UNIX commands is usually called "redirection," and the "<" and ">" symbols provide a convenient way to redirect I/O in a command line.

For example, the following command line invokes the UNIX document formatting program "nroff." Nroff will look for input in a file named "raw_file" and write its output to a file named "formatted_file":

```
nroff < raw_file > formatted_file
```

UNIX is also capable of connecting the output of one command with the input of another. The mechanism for doing this is called a "pipe" and uses the "|" symbol. Where redirection connects UNIX command I/O with files, pipes connect command I/O with other commands. Piping looks like this:

```
cat rawfile | nroff > formatted_file
```

The "cat" command just copies its input (in this case, the contents of "rawfile") to its output. The output of cat is then connected to nroff's input. As with the first example, nroff's output is sent to a file named "formatted_file."

Throwing Stupid Tricks At The Problem

The ability to connect command I/O with files and other commands suggests two ways of answering the question that showed up in my voicemail.

To keep things simple, assume that the command to be executed is "ls" (which, when executed by itself, lists the contents of the current directory). If the command line "ls" appears in a file called "very_long_script," a grep command can be used to isolate the command name:

```
grep ls very_long_script
```

continued on page 223

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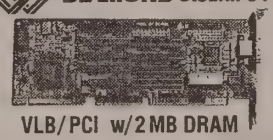

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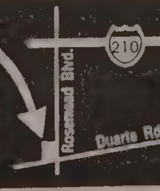

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And Then They Said...

Readers Talk Back

This month the readers write the column (and I get paid for it. I ask you—is this fair?).

First we look at two entries in our ongoing "Unusual Office" competition. After that, readers respond to two recent columns. Several professionals agree that file conversions are hell.

The Microsoft Word 6.0c comment ("Oh, NO, Mr. Bill") brought the most response. Two readers imply that I am stupid and ill-informed, or at least my computer is. A third says he has had nothing but grief with Word for Windows.

The Unusual Office

"Costanoan Indian Research Inc." (*canyon@scilibx.ucsc.edu*) wrote to say:

Hello Birrell—I would like to nominate a unique—and I mean really unique—office for consideration.

I am office coordinator for a facility on the only Indian land (Costanoan/Mutsun) in the Bay Area. This is in a box canyon near the Pinnacles and is on an Individual Indian Trust Allotment (allotted under 1887 laws in 1988!) held for Ann Marie Sayers.

The Indian Canyon office is in the remodeled garage of Elena Sayers, a full-blood Mutsun Indian who passed away in 1974. The Mutsun are a Costanoan tribal group from around San Juan Bautista. Her daughter, tribal leader Ann Sayers, started an educational and research foundation and the office. The office is used by volunteers and researchers working on historical and contemporary projects in the canyon itself.

There are traditional structures and ceremonies ongoing, so the office is in a very unique environment and overlooks a large underground round house. We have a donated Macintosh/CD system and a 286 DOS machine for simple database use. Also we use an off-site Mac in Santa Cruz with a modem connection for email, gopher and world wide web work.

We operate on a 1500 watt solar system, and a wide range of people work there, at different times. Resource and environmental interns, tribal census data entry volunteers, multimedia workshops and open houses are some of the projects and people who regularly use it. Our next step will be internet connection from the site itself and some multimedia database projects on California Indian-specific projects, such as GIS, talking maps, Indian Lands in California, network services for tribal email, etc.

Well, I thought the Costanoans had won for sure until I got this one:

From somewhere in North America

Howdy,

Your article in the June 26 Issue of MicroTimes *suggested that you might do a future article on an unusual small office. I believe that my extremely minimalist mobile office qualifies.*

My name is Lars Lohn, I am a consulting software engineer specializing in the use of the Rogue Wave C++ class libraries. My office consists of a Dell Laptop, cellular modem, cell phone, a file server, a small cabin on an organic farm and Shadow 1100 motorcycle.

In the Summer, I ride around entertaining myself on the bike in interesting places like the coast of Oregon, the mountains of Montana or the deserts of Utah. When I camp, the laptop computer comes out, I connect to BIX (one of my three Internet providers) and fetch my email via the cellular phone system. I have sat on the edges of a cliff in Canyonlands National Park writing persistence frameworks for Bell South. When I need to archive work from the laptop, I email it to the computer in my cabin in Oregon. Every night at 3AM, my machine there connects via UUCP and collects what I have sent it.

Often, I head to a client's location for on-site work. There I usually stay in a hotel where I receive more presentable clothing from home via UPS. When I'm done, I ship my clothing back home, don my leathers and hit the highway again.

My setup is evolving. I am using Procomm for Windows to fetch files from the machine at home, but my goal is to set up a machine using Linux. This requires some new hardware investment that will probably happen next Winter when the weather curtails my traveling.

The week of July 10th, I will be in the Bay Area. The following week, I'm heading back up to Montana to do some backpacking. Yep, the laptop goes with me into the wilderness. I'm probably one of few people around that gets email in the backcountry, although hitting a cell in Montana is sometimes problematic.

I hope you have found my setup interesting. If you want any more information, feel free to email me at klohn@bix.com .

lars the cyberbiker

The File Translation Nightmare

In May there was a column about the grief of multiple file formats. Just when you think you're done, I said, you get mired in file-conversion woes. This column struck a chord for readers.

From Livermore:

I enjoyed your article in MicroTimes *(May 1, 1995, "Then Just Convert The File"). You barely touched on a pet peeve of mine, the massive proliferation of formats for graphics files. That topic probably would be good for at least a column, probably a whole book! I know that there are bitmapped and vector graphics, and formats for video, each having its uses, but Why Oh Why must there be so @#$% many different formats? Why does almost every graphics program have to have its own proprietary format that won't translate well to another graphics program?*

It seems so useless to have so many formats. Every new program has a different proprietary format, and you can't get from one to another easily. I have Corel Draw! 3.0 and 4.0, Adobe Photoshop, Photofinish, Print Shop, Paintbrush, and several others. It can be a real pain to try to move a graphic from one to another except by exporting to one of the few (if any) common formats, or by cut and paste through the clipboard (when that is even possible).

And then there's the hassle of trying to remember what format the graphic you want was in when you use a program that will only recognize one at a time.

Carl

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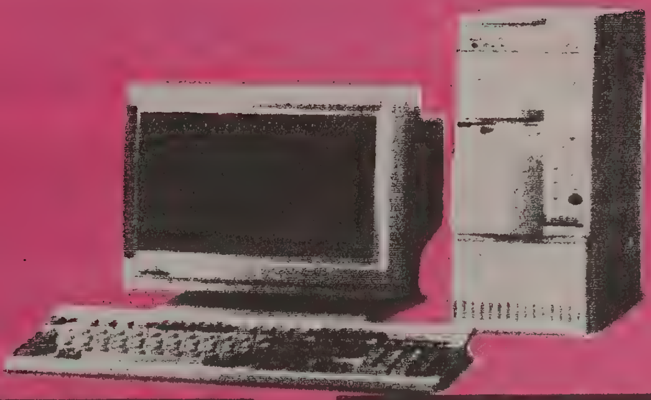

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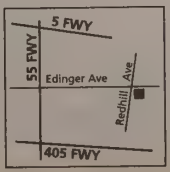

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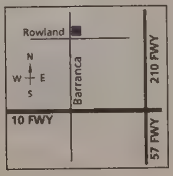

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It's not just graphics files that cause problems. A reader wrote in with his own tale of word-processing file conversion, and his solution.

From Los Angeles:

Hi, I just read your article in this month's MicroTimes *(S. Cal. edition) about the ins, outs and woes of living in a computer world of multiple file formats. As a longtime "hermeneut" going back to CP/M days I have been writing translation utilities as a regular part of whatever job I have ever had, regular or consulting.*

In response to your question about intriguing translations, I thought I would mention one I am having with WordPerfect.

This being an age of computer connectedness, I have been taking great advantage of the ease of sharing my writing with my Internet-connected friends. More and more I find myself using WPs "Save As" translator to convert my wonderfully formatted scripts, poems, musings and correspondence into simple ASCII text for transmission over the phone and out into cyberspace. Part of the beautiful formatting provided by WP is the Smartquotes feature, which automatically inserts the appropriate typographic double or single quote into my document in lieu of the usual ASCII quotes, " and '.

Unfortunately, when I save the document as an ASCII text file, only spaces remain in the converted text where the quote marks existed in the original. What a pain, what a pity. WP has not responded yet to my written inquiries.

Since this is happening more and more, and since I am a hermeneut, it was a matter of writing a simple search and replace macro to find all the single and double open and close quotes and replace them with ASCII quotes. But still, who would think that the WP programmers wouldn't add the quotes to their translation tables in WP's very complete conversion utility? Version 6.2, anyone?

While not the nightmare that translations can often be, it is indicative of how easy it is for a company to overlook simple conversion errors within their own control. It sure makes those early days of Wordstar, dBASE II and Supercalc fond memories.

Ridge Tolbert, Los Angeles

Microsoft Word 6.0C

In the June 26 issue's "Good Service, Kind Words; Bad Service, Unkind Words," I said that Microsoft Word for Windows 6.0c crashes inexplicably and frequently on my machine. This got more mail than any other column, from people who agreed and people who disagreed vehemently.

From San Francisco:

I'm the system administrator for a small LAN in SF. Even though I did not select MS Word 6.0 to be the office standard, I constantly get grief from my users about the constant barrage of error messages and problems that Word 6.0 produces. Like you, I got quick, pat answers from the tech support people. These answers only work for a short time before the problems start coming back.

And to think that we upgraded to 6.0c to overcome the bugs of the earlier versions! It amazes me that Microsoft is as successful as it is.

Thanks for your article.

Donald Martin

Not all readers were so kind:

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Small Office/Home Office *continued...*

Mr. Walsh,

I just finished reading your article entitled "Good Service, Kind Words; Bad Service, Unkind Words" in the June 26 issue of MicroTimes. *It has been a long time since I read an article in a computer magazine written by someone who is so uninformed about computers. While I certainly don't feel the need to defend Microsoft, let's limit the complaints to those that are legitimate.*

Any DOS-based program of any complexity needs to know where the TEMP directory is located; this is not a function of an application, but the operating system. By operating system, I don't even mean Windows, but DOS. Now, DOS will set up a TEMP directory when it is installed. To lose it, you must have changed your AUTOEXEC.BAT file. The fact that your new TEMP directory has files in it that you didn't place there means it is working as designed.

Computers are not typewriters; they require a certain amount of setup and maintenance. If you are unwilling or unable to perform these tasks, you should either hire a capable consultant, or go buy a Smith-Corona.

*We do agree on one point, however. The techs were *very* patient.*

Sincerely,
Steve Hutson

The problem I referred to was Word for Windows' apparent inability to create its own temp directory. Many simpler programs do so. If a Smith-Corona typewriter can do so—hmm...

One of my thoughts was that quickly written, unchecked object-oriented programs were part of the problem. Joe Warren disagreed.

From the SF Bay Area:

I run MS Word 6.0x all the time (currently under Win95 (build 490)) and have used it extensively under WFWG. I don't have any problems at all and it runs just fine. I suggest that the problem may be in the off-brand motherboard or video card that you are using. As a computer consultant, I have found that many people who complain of various compatibility problems suffer because they think that the low-cost motherboards and video cards are equivalent to the higher priced, better supported brands. It's like buying a Ford Escort and wondering why it isn't as quiet or nice as a Lexus. For the record, my current system is an older 486/66 (AMI EISA motherboard and BIOS) with 16 MB RAM, 2 SCSI hard disks totaling 1.6 gig and an ATI Graphics Ultra VLB card with 2 mb VRAM.

There is no software that is released fully debugged these days (a symptom of our must-have-it-now attitude). Running high-quality components can alleviate a large number of problems. A computer system is NOT like a home stereo setup. Sadly, you can't just plug anything in and it will always work.

As to object oriented code - BS. This has nothing to do with the issue. MS Word 6.0 is MUCH more reliable (based on the clients I have set up with it) and functional than Word 2.0. If all the systems in your home office are low-quality systems, then perhaps you have made the right decision to stick with 2.x. But remember, Word 2.0 also came in a, b, and c flavors. What will you do when Word 7.0 is released? What will you do when Win95 is officially released (and doesn't work on your setup?). Write another complaining article about how MS let you down?

Joe Warren

I spoke with Richard Leeds, president of Computer Product Introductions in Bellevue, Washington. He too has Word for Windows crash stories. He had a programmer friend who says of object-oriented programming that "Information hiding is bug hiding." I wrote to the friend, Austin Watson, to get permission to use his quote. He responded in part:

From Bellevue, Washington:

Birrell -

You may quote me. I am a software project manager for Cirrus Logic Inc. We design ICs. My group develops BIOS and Driver level software for PCs that use our chips. I spend more time writing with MS Word than anything else. My motto is "Save Early, Save Often"—a rule I learned from Sierra when playing adventure games on my old Atari machine in the '80s.

We really are in the stone ages of code writing. This object stuff is just a way to put a pretty layer on top of the same crummy code we've been writing for the last 30 years. Don't get me wrong, object oriented development has benefits; reuse, inheritance, and strong typing being among them. However, it is my experience that people write poor quality code when their organizational methodologies are optimized for meeting schedules, not for developing quality products. And of course this is what we ALL are doing these days.

I am using Word 6 and Windows 95. The combination has crashed, giving me some "friendly" little dialog boxes attempting to help back out of the mess but ultimately resulting in lost work. I've never backed out of these crashes with my file intact. "Save early, save often."

(I had the same problems with Win3.1. I like Win95 a whole lot more. ... another article...)

Wouldn't it be nice if industry took a year off and dedicated it to quality? "The Quality Year". I'd trade a thousand worthless icons for a system that didn't destroy my intellectual property on a regular basis.

Austin Watson

So let's assume, differently from our habit, that the doings in Redmond have just this motive. Mr. Bill and all his people said, "Hey, let's do it right. It'll take a bit longer, but why not? We can make it *really* good this time. And if there are problems, we'll say 'Thanks for telling us!' and fix 'em." They've got a big red "Q" on the wall, for "Quality." What the hell, I like that picture !

If You Had Written In...

Your two-bits' worth might have been here. If you have a small or home office to nominate for the "Unusual Office," or if you have a few choice things to say, send them to *birrell@well.com* . ■

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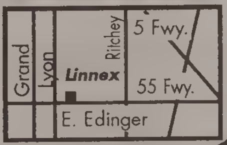

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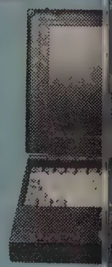

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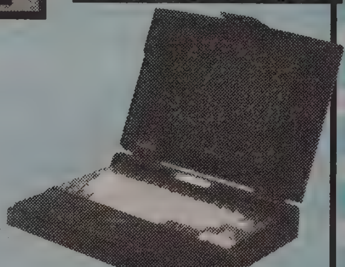

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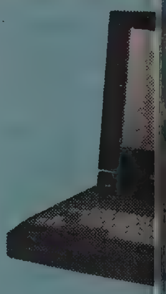

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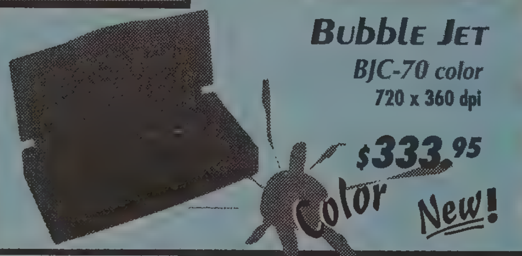

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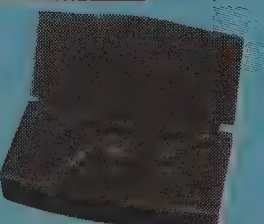

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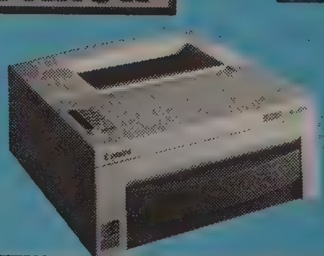

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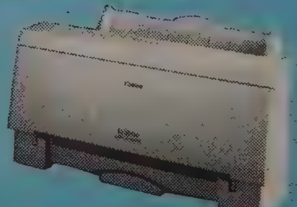

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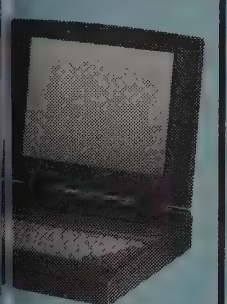

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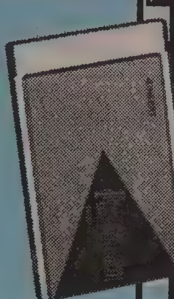

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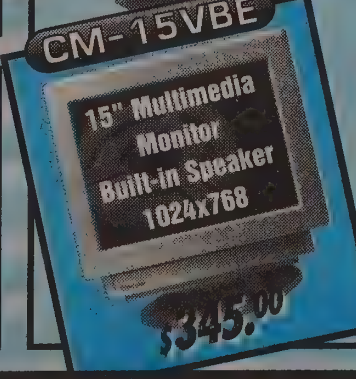

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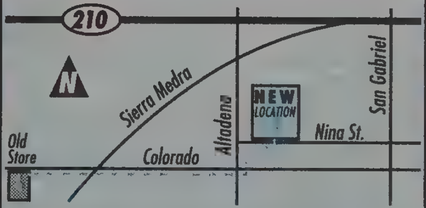

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Diamond Viper SE,2MB/4MB Vram(Oem)	270/405
ATi Graphics Winboost PCI-64 1MB/2MB Dram	139/179
ATi Graphics Winturbo PCI-64 2MB/4MB Vram	255/385
# 9 Motion 771 PCI with 2MB/4MB Vram (Oem Pak)	265/415
# 9 Imagine 128 PCI with 4MB Vram (Retail Pak)	769

*** CONTROLLER CARDS ***

ISA IDE Controller with I/O(2H/2F/2S/P/G)	13
AT High Speed I/O w/IDE Controller (5100AT)	28
VLB High Speed IO W/Enhanced IDE (6000VL)	40
VLB IDE with I/O (2s/p/g) (GS)	17
VLB DTC2278D Enhanced IDE/IO	25
Adaptec 1542CF 16-Bit SCSI-II (Oem Pak)	170
Adaptec 1542CFK 16-Bit SCSI-II w/Kits	250
Adaptec 1542CFK plus Corel-designed SCSI software	295
Adaptec 2742T EISA SCSI-II (Oem Pak)	215
Adaptec 2742ATK EISA-SCSI-II w/Kits	390
Adaptec 2742TK plus Corel-designed SCSI software	460
Adaptec 2842A VLB SCSI-II (Oem Pak)	178
Adaptec 2842AK VLB SCSI-II w/Kits	235
Adaptec 2940 PCI SCSI-II (Oem Pak)	188
Adaptec 2940K PCI FSCSI-II w/Kits (Oem Pak)	215
Adaptec 2940K PCI FSCSI-2 w/Kits (Original Pak)	295
Adaptec 2940WK PCI Wide SCSI-II w/Kits (Oem Pak)	285
BusLogic TK-946C PCI SCSI-II (with Kit) (Original)	245

*** I/O CARDS ***

AT I/O Card (2s/p/g)	11
High speed AT IO (2s/p) 16c550 chips	26
Printer Card	11
Printer Card (Upto 2 Ports)	13
Two Printer Port Card	19
RS-232 Card (2 Serial Ports)	12

*** FLOPPY DISK DRIVES ***

Teac 1.2MB 5 25" Beige	42
Mitsumi 1.2MB 5.25" Beige	36
Teac 1.44MB 3.5" Beige	35
Milusmi 1.44MB 3.5" Beige	33
Teac 1 2&1 44 Dual Floppy Drive	89

**** HARD DISK DRIVES ***

*** WIDE SCSI ***

Conner CFP2107W 2.1GB/9ms/FWS2/512k	945
Conner CFP4207W 4GB/9ms/FWS2 512k	1370
Micropolis 4221W 2.1GB/9ms/FS2/512k/7200rpm	1129
Micropolis 3243W 4GB/8.5ms/512K/7200rpm	1559
Micropolis 1991W 9.0GB/12ms/FWS2/1024k/FH	2395
Quantum Atlas XP32150W 2.1GB/8ms/FWS2 1024k	950
Quantum Atlas XP34300W 4.3GB/8ms/FWS2 1024k	1625
Seagate 31230W 1.05GB/9ms/FWS2/512k	645
Seagate 32550W 2.13GB/8ms/512k/FWS2/7200rpm	1049
Seagate 15230W 4.29GB/9ms/512KB/FWS2/7200rpm	1365
Seagate 15150W 4.29GB/8ms/1024k/FWS2	1525
Seagate 410800W 9.09GM/FWS2/12ms/FH	Call

*** AUDIO VISUAL SERIES ***

Micropolis 3221AV 2.1GB/9ms/512k/7200rpm	1079
Micropolis 3243AV 4GB/8.5ms/512k/3.5"/7200rpm	1539
Micropolis 1991AV 9GB	2380

420MB *

Conner CFS 425A 425MB/14ms/32k IDE	139
Quantum TR420A 420MB/14ms/128k E-IDE	143

540MB - 850MB *

Quantum LHT540A 540MB/11ms/128k E-IDE	175
Quantum LHT540S 540MB/11ms/128k FS/2	183
Quantum LHT730S 730MB/11ms/128k FS/2	245
Quantum MAV540A 540MB/14ms/128k E-IDE	165
Quantum MAV540S 540MB/13ms/128k FS/2	175
Conner CFS540A 540MB/15ms/64K IDE	164
Conner CFS850A 850MB/12ms/256k IDE	189
Seagate 3660A 545MB/14ms/120k F-ATA	160
Samsung SHD30560A 560MB/12ms/256k IDE	155
Maxtor 7540AV 540MB/12ms/32k IDE	165
Maxtor 7850AV 850MB/12ms/32k IDE	190

1 GB - 1.7GB *

Conner CFP1060S 1.06GB/11ms/256k FS/2	385
Conner CFS1275A 1.2GB/15ms/64k IDE	255
HP C3323 1 0GB/9.5ms/512k FS/2	515
IBM DEPA31080 1.08GB/10.5ms/512k IDE	360
IBM DPES31080 1.08GB/10.5ms/512k FS/2	388
Seagate 31230N 1.0GB/ 9/11ms/512k FS/2	495
Maxtor 71260A 1.2GB/12ms/256k IDE	245
WD AC31200 1.2GB/10ms/512k E-IDE	295

2 GB - 9 GB *

Conner CFP2105S 2.1GB/9ms/512K FS/2	688
Conner CFP2107S 2.1GB/9ms/512K FS/2 7200rpm	735
Conner CFP4207S 4GB/9ms FS/2 512K 7200rpm	1065
Hewlett Packard C3325 2.17GB FS/2 9.5ms 512K	765
Micropolis 4221 2GB/9ms/512K/7200rpm/FS2/HF	875
Micropolis 1936 3GB/12ms/512K/FS2/FH	789
Micropolis 3243 4.3GB/8.5ms/512K FS2/7200rpm/HF	1399
Micropolis 1991 9GB/12ms/512K/FS2/FH	2195
Quantum Atlas 32150S 2.1GB/8ms/1024K/FS2	825
Quantum GXP34301S 4.3GB/8.6ms/7200R/FS3	1085
Seagate 32430N 2.14GB/9ms/512K/FS2	875
Seagate 32550N 2.14GB/8ms/512K/6200R/FS2	975
Seagate ST15230N 4.29GB/ 9/11ms/512K/FS2	1095
Seagate ST15150N 4.1GB/10ms/1024K/7200R/FS2	1498
Seagate 410800N 9.09GB/11ms/512K/FS2/FH	2295

*** KeyboardS ***

Mitsumi 101K Enhanced Keyboard	24
Focus 101K Keyboard with Dust Cover	32
Focus 102K Keyboard	26
Focus 111K Keyboard with Calculator	40
Focus 130K Programmable KB w/Calculator	55
Keytronics 101K Keyboard	27
Fujitsu 101K Keyboard	41
Lite-On 101K Keyboard (Honeywell Oem)	33
MicroSoft Natural Keyboard	88

**** MONITOR ****

9" 931MV MONO-VGA Paper White Monitor	155
14" BTC14 MONO Paper White Monitor	86
14" BTC14VM 14" SVGA-MONO Monitor	109
14" CTX1451C SVGA .28DP, N.I.	228
15" CTX1562CLR SVGA Flat Screen ,N.I.	335
17" CTX1765GM SVGA Flat Screen ,N.I.	628
17" CTX1785GM SVGA .27dp Flat Screen	685
15" MAG-DX15F .28dp 1280x1024 MPR-II monitor	345
17" MAG-DX17F .26dp 1280x1024 MPR-II monitor	639
17" MAG-MXP17F .26dp 1600x1280 MPR-II monitor	895
21" MAG-MX21F .28dp 1600x1280 MPR-II monitor	1650
14" Viewsonic 6E .28DP 1024x768 N.I.	269
15" Viewsonic 15ES .28dp 1280x1024,60Hz,LR,Flat	365
15" Viewsonic 15G .28dp SVGA N.I.	415
17" Viewsonic 17GS .27dp 76Hz,Low Radiation,Flat	735
17" Viewsonic 17GA .27dp OnView Contrl, Dome Speaker	835
17" Viewsonic 17PS Milti-freq, .25dp	919
20" Viewsonic 20G Digital 76Hz .28dp, 1600x1280	1335
20" Viewsonic 20PS .27dp 1600x1280 N.I.,76Hz,LR,Flat	1395
21" Viewsonic 21PS 25dp 1600x1280 N.I.,76Hz,LR,Flat	1695
15" NEC 15xv .28dp SVGA Monitor	475
15" NEC 15xe .28dp 1024x768 SVGA Monitor	535
15" NEC 15xp .28dp 1024x768 PM SVGA Monitor	615
17" NEC 17xe .28dp	975
17" NEC 17xp	1036
17" Sony 17SF 1280x1024 .25dp Flat Trinitron Screen	855

*** CASE AND POWER SUPPLIES ***

European Style Desktop Case w/200W	49
European Style Mini-Tower Case w/230W	40
European Style Mini-Medium Tower Case w/220W	47
European Style Medium-Tower Case w/230W	67
European Style Full-Size Tower Case w/250W	82
Super Server Case w/300W 12 Bays, 3 Fans, Door (H/W/D=580X280X440mm, Black color also avilable)	375
External Chassis for 3 5" Hard Drive w/40W	75
External SCSI-II Hard Drive Cable	28
PS/2 Size 200W Power Supply	25
PS/2 Size 200W Power Supply UL/CSA	30
PS/2 Size 250W Power Supply	31
PS/2 Size 250W Power Supply UL/CSA	36
PS/2 Size 300W Power Supply	61
PS/2 Size 300W Power Supply UL/CSA	79
Full Size AT 250W Power Supply	65
Full Size AT 250W Power Supply UL/CSA	73
Full Size Tower 300W Power Supply	65
Full Size Tower 300W Power Supply UL/CSA	69

*** Printers ***

(HEWLETT PACKARD)

HP Deskjet 540 Printer	225
HP Deskjet 660C Color Printer	395
HP 700 Fax	555
HP Office Jet	775
HP Deskjet 1200C	1265
HP Deskjet 1200C Plus	2043
HP Laserjet 4L/4ML with Toner	485/935
HP Laserjet 4+/4M+ with Toner	1385/1885
HP Laserjet 4P/4MP with Toner	839/1285
HP Laserjet 4V Printer with Toner	1875
HP 4SI Laser Printer	2795
HP Scanjet 3C Scanner	895
Printer CABLE 6 FT.	6
Printer CABLE 10 FT.	10
Printer CABLE 15 FT.	15
Printer CABLE 25FT.	20

MULTI-MEDIA

Sony 55E 2x 250ms Internal (IDE) CD-Rom	95
Sony 76E 4 x Speed IDE CD-Rom	159
Toshiba 5301B Quad Speed (IDE) CD-Rom	155
Toshiba 3601B 4.4x Speed SCSI CD-Rom	295
Mitsumi Quad Speed (IDE) CD-Rom	175
Teac Quad Speed (AT) CD-Rom (BARE)	185
Panasonic 504B Quad Speed SCSI CD-ROM	255
Creative Lab Sound Blaster 16 BASIC Vibra IDE (Oem)	75
Creative Lab Sound Blaster 16 MCD Vibra (Oem)	75
Creative Lab Sound Blaster 16 ASP SCSI-II	205
Creative Lab Sound Blaster 16 ASP MCD	175
Creative Lab Sound Blaster AWE32 Value Edition	235
Creative Lab Sound Blaster AWE32 Full Version	275
Opti Sounds Easy Pro16 16 Bit Sound Card (Acer Chip)	65
MOZART Multi-Media Kits: Double Speed CD-Rom IDE Type Mozart 16 bit sound Card 10W Mini Speakers	105

** NETWORK PRODUCTS **

(ARCNET)

8/16Bit Arcnet Auto-Select, BNC only	36
*Boot ROM............ Add 11	
16 Bit Arcnet BNC+TP For Twist-Cable and BNC	46

(HUB)

Arcnet 8 Ports Active HUB, BUS/STAR,Coaxial Cable	99
Arcnet 8 Ports Active HUB, Twisted Pair	140
Arcnet 4 Ports Passive HUB	11
Arcnet 4 Ports Active HUB Twisted Pair	87
8 Ports Ethernet HUB (AUI/BNC/8 RJ45)-Standard	145
8 Ports Ethernet HUB Palmtop Size with DC Adaptor	119
12 Ports Ethernet HUB (1 Dedicate)	275
12 Ports Ethernet HUB (1BNC+1AUI+12TP)	390
12 Ports Ethernet HUB (1BNC+1AUI+12TP,Stackable)	680
16 Ports (BNC/AUI/IEEE802.3/INT.PS/19" Standard)	279
16 Ports Ethernet Concentrator	375

(COAX)

16 Bit Ethernet Combo (RJ45/BNC)Jumperless	34
16 Bit Ethernet (RJ45/BNC/AUI)	39
32 Bit EISA Ethernet (AUI/BNC/TP) 3-in-1 Combo	195
32 Bit VLB Ethernet (AUI/BNC/TP)	195
D-LINK PCI Ethernet w/BNC,10BT & AUI Ports	145
PCI Ethernet Combo, Jumperless	105
3Com PCI Ethernet 100BT	226
Artisoft Lantastic V 6.0 For Dos/Wwindows	70
Artisoft V6.0 5 Users	305

(NOVELL) (Oem White Box)/
(Original Red Box)

Novell Netware V.3.12 5 -User 3.5"	375/525
Novell Netware V.3.12 10-User 3.5"	950/1129
Novell Netware V.3.12 25-User 3.5" or CD	1250/1625
Novell Netware V.3.12 50-User 3.5" or CD	1350/1999
Novell Netware V.3.12 100-User 3.5" or CD	2050/2125
Novell Netware V.4.1 5 -User CD	375/525
Novell Netware V.4.1 10 -User CD	950/1129
Novell Netware V.4.1 25 -User CD	1250/1625
Novell Netware V.4.1 50 -User CD	1350/1999
Novell Netware V.4.1 100 -User CD	2050/2125
Novell Netware V.4.1 250 -User CD	3350/3495
Novell Netware V.4.1 500 -User CD	9150
Novell Pernonal Netware V.1.0	45
Novell Netware LITE V.1 1	39
Windows for Workgroup -full version	65
Windows for Workgroup -Add-on version	55

*All by Oem package

(NETWORKING ACCESSORIES)

25 FT RG-58 Cable with Connector	15
50 FT RG-58 Cable with Connector	25
RG-58 T-Connector	2.5
RG-58 50 Ohm Terminator	3

MISCELLANEOUS

Mouse:

Logitech MouseMan Serial	49
Logitech MouseMan PS/2 Version	49
A4 Mouse Serial 3 Buttons/Pad	12
MicroSoft Serial Mouse (Oem pak)	35
MicroSoft BUS Mouse (Oem pak)	55

FAX MODEM:
(SMARTLINK)
INTERNAL TYPE:

2400bps with IRQ 2,3,4,5 Dip-switch settings	29
9600SR/2400 fax modem internal	45
AT&T CHIPS,UPTO 57.6KBPS THROUGHPUT int.s/r fax modem with 14.4kbps V.17 fax & 14.4kbps V.32bis/V.32/V.42bis/MNP5 Modem.Built-in 16550 UART, Auto fallback for data/fax connection	65
CIRRUS LOGIC CHIPS. the rest of function as same as	69
14.4s/r V.17/14.4 V.32BIS/V.42BIS/MNP5 record/playback. Voice messages,auto detect voice/fax/data,fax-on-demand,pager notification,speaker jack,1000 mail boxes,16550UART,Cirrus Logic Chips	75
AT&T CHIPS,int.s/r fax modem with ITU V.34 standard 28,800bps MNP5 & V.42bis data compression, error correction. Up to 115,200bps throughput.	155

External TYPE:

AT&T CHIPS, ext.s/r fax modem with 14.4kbps V.17 fax. & 14.4kbps V.32bis/V.32/V.43bis/MNP 5 Modem. Upgradeable to 19.2kbps	108
PCMCIA V.32bis 14.4kbps type II s/r fax modem ,with. V.42/MNP 2-4 error control, V.42bis data compression. Achieves throughput upto 57,600bps	129
AT&T CHIPS,ext.s/l fax modem with ITU V.34 standard 28,800bps MNP5 & V.43bis data compression, error correction. Upto 115,200bps throughput	205

(US ROBOTICS)

Sportstor 28.8 Fax/Data Modem Int/Ext	215/245

TAPE BACK-UP:

Colorado DJ-10120MB Int. Tape Backup	115
Colorado DJ35/JT35 350MB Int/Ext. Tape Backup	145/285
Conner 420MB Int/Ext. Tape Backup	183/319
Colorado DJ25/JT25 750MB Int/Ext.Tape Backup	269/409
Colorado DJ50 1.4GB Int. Tape Backup	335
Colorado Travan T1000 800MB Compresse Int.	195
Conner 850MB Int/Ext. Tape Backup	279/409
Conner 4.0GB SCSI/with One Free Qic-3080 Tape Cartiridge	525
Colorado PT10 1GB INT.BACKUP	608
Colorado PT25/PT25E 2GB Int/Ext. Tape Backup	949/1099
Colorado PT50/PT50E 4GB Int/Ext. Tape Backup	1179/1399
Colorado PT60 DAT6000 4GB Int. Tape Backup	1179

ACCESSORIES:

Colorado AB-11 External Adapter Kit	32
Colorado KE-09 External DRIVE Kit	70
Colorado FC-20 500KB/S-1MB/S Adapter Kit	78
Colorado TC-15 Data Compression Adapter Kit	75
Colorado CK-17 Data Cable (3 Conn.For Two Fdd)	11
*Cartridge for PT10	35
*Cartridge for PT50(E)	45
*Cartridge for DJ-50	35
40/80MB/120MB Mini Data Cartridge (Preformatted)	16
60/120/250MB Mini Data Cartridge (Preformatted)	18
350MB Cartridge	20

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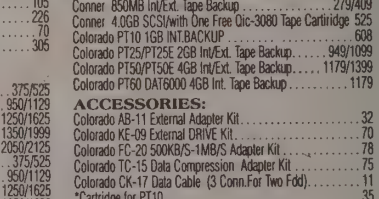

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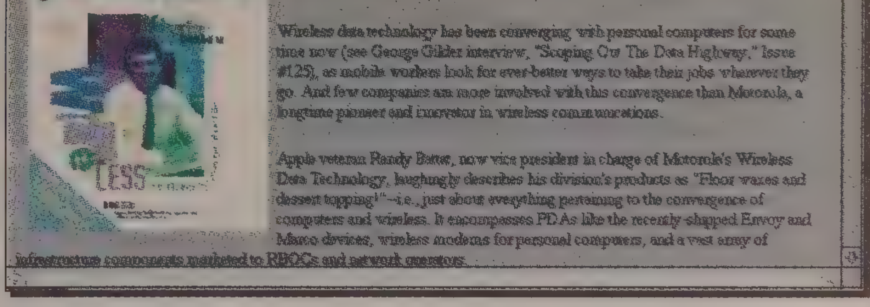
MICROTIMES on the WEB

http://www.microtimes.com/

The adventure continues!

Last month we invited you to come help us design our World Wide Web site, and we're pleased to report that lots of you took us up on it. We received lots of visits and many useful suggestions, and we're hoping to be able to implement some of them as the venture progresses. Not only do we want you to keep visiting and suggesting, we'd like you to bring your friends!



Wireless: It's Going To Change Your Life
A Visit With Motorola's Randy Battat

By Mary Eisenhart

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"All this notion of organizational structure that was relevant twenty years ago is no longer relevant, and that's scaring the bejesus out of people."
—Randy Battat

Wireless data technology has been converging with personal computers for some time now (see George Gilder interview, "Scoping Out The Data Highway," Issue #125), as mobile workers look for ever-better ways to take their jobs wherever they go. And few companies are more involved with this convergence than Motorola, a longtime pioneer and innovator in wireless communications.

Apple veteran Randy Battat, now vice president in charge of Motorola's Wireless Data Technology, laughingly describes his division's products as "Floor waxes and dessert topping!"—i.e., just about everything pertaining to the convergence of computers and wireless. It encompasses PDAs like the recently-shipped Envoy and Marco devices, wireless modems for personal computers, and a vast array of infrastructure components marketed to RBOCs and network operators.

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—Editors

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Online Guide

INTERNET • BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

"Communications Decency" The New McCarthyism

Communism Is Dead, But Pornography, Especially Child Pornography, Has Taken Its Place As The Political Expedient Of This Decade.

"Do you now *or have you ever made, transmitted, or otherwise made available any comment, request, suggestions, proposal, image, or other communication which is obscene, lewd, lascivious, filthy, or indecent?"*

Get used to that question. You may well have to answer it soon.

On 14 June 1995, the US Senate attached S.314, the so-called Communications Decency Act (CDA) of 1995, to the Telecommunications Reform Act (TRA), by a vote of 84 to 16. The following day, the Senate overwhelmingly approved the TRA.

The wording in the question above differs from the letter of the CDA only in being recast in the form of a question. If this bill becomes law, you will be liable to up to $100,000 in fines and up to two years in jail for making an "indecent" comment. The entire text of CDA, and of the debate preceding its approval, is available through URL:*http://www.zilker.net/senate/s314.html* and from numerous other places on the Internet.

For what you can do about this bill, see the end of this article.

The nominal incentive for the bill is to prevent pornography being available to children. If you agree with that goal, you're in the company of a great number of Americans. However, if you assume CDA is something you would favor, please read it first.

Considering that 98% of Internet users are older than 18 (see the April *Matrix News*), and that there already exist commercial services to pre-censor information for children (see "Decency Filters," *Matrix News*, June 1995), there was no need for any action whatever on the part of the US Congress.

The action the Senate has chosen to take would, because of its vague, absurdly overbroad language, seriously damage a social, economic, and technical field in which the United States leads the world and which itself is one of the most dynamic both in this country and in the world. Since the Internet is a great tool for education, the Senate's action would adversely affect our youth by stifling that tool before most children even get to use it.

This bill is not about protecting children. It is about political grandstanding using a politically easy target. Congress can get away with it now, when less than 10% of the US population is on the Internet, just as they could get away with red-baiting when only a small percentage of the US population was Communist. But Communism is dead, and the Internet is not. The Internet will keep growing, even if shot in the groin by Congress. In a few years, there will be enough people on the Internet to remember what was done in Congress in June 1995 and by whom and to vote correspondingly. We hope we don't have to wait that long.

> If anyone actually believes *TIME* magazine's assertion in its July 3 issue that 83% of Internet traffic is pornographic, we have some beachfront property in Nevada to sell them.

In the meantime, the much larger victim of this bill, which *will* affect you, whether you are for or against government regulation of the Internet, whether you are on the Internet or not, is the First Amendment of the US Constitution.

The Real Problem

If anyone actually believes *TIME* magazine's assertion in its July 3 issue that 83% of Internet traffic is pornographic, we have some beachfront property in Nevada to sell them. While that issue of *TIME* was merely one of the worst of recent bad media treatments of the subject, it was notable not only for being based on a study of very questionable methods and results, but also for distorting even those results beyond recognition. In fact, the newsgroups *TIME* hyped as being pornographic account for at most a few percent of Internet traffic, and are clearly marked as to content. See *http://www.zilker.net/swg/* for more on this.

Now nobody denies that there is nasty stuff on the Internet, by whatever definition of nasty you care to choose. We hope nobody denies that the same is true of the world at large, too. We don't lock our children in a room all their lives because of it. We shouldn't deny them the Internet because there are a few areas of it we or they might not like.

Regarding "indecent" language, don't parents

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From the DOS prompt in the directory you downloaded tawin.exe into, run tawin.exe to decompress TotalAccess. From the Windows Program Manager File menu, choose Run. Click Browse and find the setup.exe file in the same directory as the tawin.exe. Click OK to install the TotalAccess registration software and get started. -or-

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- Extra NI-MH Battery $150

Sound WinNote 486

- Intel® DX2 or IntelDX4™ Processor
- 8KB or 16K Internal WB Cache RAM
- 4MB / 8MB RAM (exp to 20MB)
- 340MB / 520 / 810MB Hard Drive
- 9.5" Dual Scan STN Color Display
- 3.5" Built-in Floppy Drive
- Local Bus Windows Accelerator
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  External Jacks for Line In & Line Out
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- Trackball Mouse
- Carrying Case & AC Adapter
- Sound Software

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486DX2-66 4MB RAM, 340MB HD	$1595
486DX4-100 4MB RAM, 340MB HD	$1675
486DX4-100 8MB RAM, 340MB HD	$1895

ACTIVE MATRIX TFT

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PCI Lightning 4x

- Ultra-Fast **256K Cache**; Up to 512K
- **8MB** RAM & Expandable to 128MB
- **850MB** PCI **Enhanced IDE** Drive
- PCI Local Bus **Enhanced IDE** HDD Controller
- Quad Speed (4X) CD-ROM Drive
- 3.5" 1.44MB Floppy Drive
- PCI **Diamond Stealth SE (1MB)** Accelerator
  (The best accelerator for both DOS & Windows)
- **15" Flat Screen 1280x1024 Digital Monitor**
  (30% larger edge to edge display)
- 2 Serial, 1 Parallel & 1 Game Ports
- Enhanced 101-key Keyboard
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- **16MB** RAM & Expandable to 128MB
- **1.08 GigaByte** Fast (Mode 4) **EIDE** Drive
- PCI Local Bus **Enhanced IDE** HDD Controller
- Quad Speed (4X) CD-ROM Drive
- 3.5" 1.44MB Floppy Drive
- 64-Bit PCI **Diamond Stealth 64 Video MPEG (2MB)**
  (Full screen MPEG, CD-i, AVI, & Cinepak playback)
- Diamond **InControl**™ Virtual Screen Software
- **17" Flat Screen 1280x1024 Digital Monitor**
- 2 Serial, 1 Parallel & 1 Game Ports
- Enhanced 101-key Keyboard
- Hi-Resolution 400 DPI Serial Mouse

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- 3.5" 1.44MB Floppy Drive
- 64-Bit PCI **Diamond Stealth 64 Video MPEG (2MB)**
  (Full screen MPEG, CD-i, AVI, & Cinepak playback)
- Diamond **InControl**™ Virtual Screen Software
- **15" Flat Screen 1280x1024 Digital Monitor**
- 2 Serial, 1 Parallel & 1 Game Ports
- Enhanced 101-key Keyboard
- Hi-Resolution 400 DPI Serial Mouse

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- 3.5" 1.44MB Floppy Drive
- 64-Bit PCI **Diamond Stealth 64 Video MPEG (2MB)**
  (Full screen MPEG, CD-i, AVI, & Cinepak playback)
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- Diamond **InControl**™ Virtual Screen Software
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- 2 Serial, 1 Parallel & 1 Game Ports
- Enhanced 101-key Keyboard & Serial Mouse
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- **14 Titles CD Bundle** or **Video CD Bundle**

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- Diamond **InControl**™ Virtual Screen Software
- **15" Flat Screen 1280x1024 Digital Monitor**
- 2 Serial, 1 Parallel & 1 Game Ports
- Enhanced 101-key Keyboard & Serial Mouse
- **14400 Baud FaxModem with Voice Mail**
- **14 Titles CD Bundle** or **Video CD Bundle**

Pentium Processor-75	**$2125**
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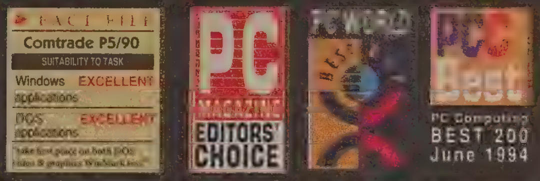
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Delta has a full range of WWW hosting and authoring services. From economical shared public servers to high performance private dedicated servers, and secure transaction capability, Delta can host the simplest Home Page to the most sophisticated WWW applications.

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- Delta's robust wide area network infrastructure can provide local leased-line connections, from 56K to T1 and above, over most of the Southland and San Diego county.
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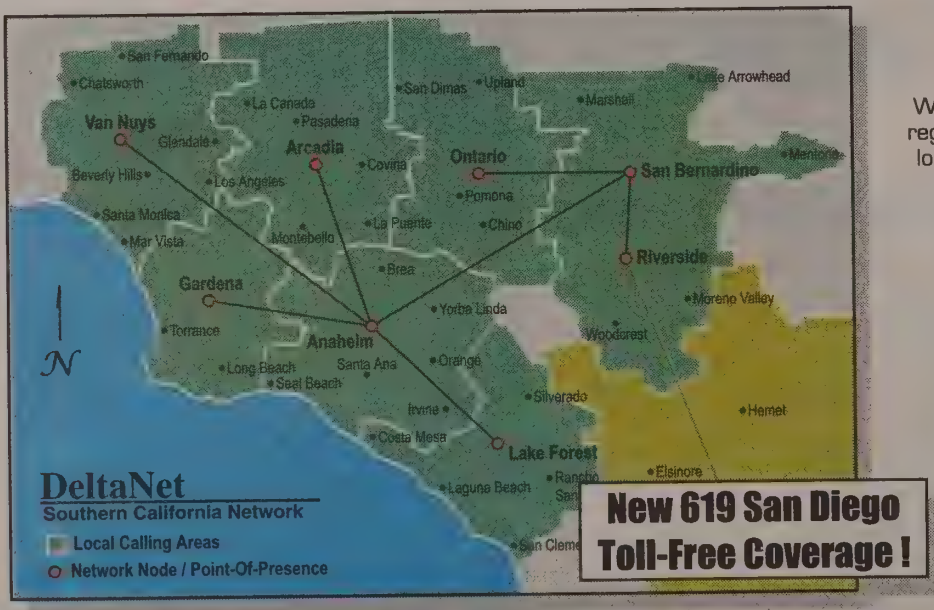
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DELTA INTERNET SERVICES

teach their children what to do if they encounter people or a conversation with bad language? How is the situation any different on the Internet?

If a child ran away in a bookstore and found a book of erotica, the bookstore owner would be liable if CDA applied to bookstores. In such a case, where is the responsibility of the parent? Or of the child, for that matter? Do parents let their children go into the corner convenience market? If so, do they not teach them not to grab adult magazines off the shelf? Such materials are already segregated into clearly marked areas on the Internet (and for that matter most adult pictures on the Internet come from those same adult magazines). Various commercial ventures are already providing further technical means for such labelling (see below).

The Internet is large; it contains multitudes. In that way, it is much like the world itself, and not by accident, since its participants are a large and rapidly growing slice of life at large. Basically, there was no real problem to be solved, because the Internet introduces no problems that didn't already exist.

The Legal Problem

CDA would not inhibit the dissemination of obscenity or child pornography. The Acting Assistant Attorney General of the US is on the Federal Record as saying so explicitly (see the transcript available through the cited URL):

> *In sum, sections 402 and 405 of the bill would hamper the government's ongoing work in stopping the dissemination of obscenity and child pornography and threaten law enforcement's continued ability to use court-authorized wiretaps. We believe that a comprehensive review be undertaken to guide response to the problems that the Communications Decency Act seeks to address.*

The AAG also notes that CDA conflicts with several recent laws passed by Congress. All this corroborates our contention that CDA is not an anti-pornography bill; it is just political grandstanding so that a lot of politicians can look tough on pornography.

The AAG also notes some interesting potential side effects of CDA, including on the freedom of the traditional print or electronic press to gather news:

> *Additionally, the amendment might also impact upon the news gathering process. For example, if the conversation of two individuals shouting in a hotel room were recorded by a news reporter standing outside the room, the reporter would, under section 405, be violating the wiretap statute. Under current law, of course, the individuals could not complain about the recording because, by shouting loud enough to be heard outside the room, they lack any reasonable expectation of privacy.*

CDA is written so broadly and vaguely that it is probably unenforceable on a broad scale. However, for the same reason, it will permit any prosecutor to bring charges against practically anyone who posts anything that might somewhere be considered "indecent." The bill nowhere defines any of the terms "obscene, lewd, lascivious, filthy, or indecent."

What's Indecent?

In the early days of Khomeini's Iran, a woman could call down the wrath of the Revolutionary Guards by going out with one hair of her

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- 1 Type II or Type III PCMCIA slot

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486DX4/75	10.4" Dual Scan	500MB	$2988
486DX4/75	10.4" Active	500MB	$3698

T4900 *Your dream Machine*

$4798

- 10.4" Active Matrix Color Display
- 772MB HD, 8MB/40MB
- 1 Type II & Type III PCMCIA slot
- Microsoft Sound System, built-in microphone audio output

TOSHIBA
T4900CT

T4700, T4800, T4850

Sight, Sound & processing Power

- Brilliant color display with local bus video
- 1 Type II or Type III PCMCIA Slot
- Microsoft Sound System, built-in microphone audio out port

Model	Processor	Screen	Hard Drive	Price
T4700	486DX2/50	9.5" Dual Scan	200MB	$2698
T4700	486DX2/50	9.5" Dual Scan	320MB	2798
T4800	486DX4/75	9.5" Active	500MB	3098
T4850	486DX4/75	10.4" Active	500MB	3248
T4850	486DX4/75	10.4"" Active	722MB	3448

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- Ultra-portability at only 4.4 lbs
- 8MB RAM expanbdable to 24MB
- PCMCIA Type II Slot
- Intergrated Accutpoint Pointing device

Processor	Screen	Hard Drive	Price
Pentium 90	9.5" Actvice	720MB	$4448
486DX2/50	8.4" Active	500MB	3198
486SX/33	7.8*" Active	120MB	1698

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Model	Processor	Screen	Hard Drive	Price
T2100	486DX2/50	9.5" Mono	250MB	$1198
T2110	486DX4/75	10.4" Dual Scan	350MB	1998
T2110	486DX4/75	10.4" Active	350MB	2398
T2130	486DX4/75	10.4" Active	500MB	2998
T2130	486DX4/75	10.4" Dual Scan	500MB	2398
Pro Series				
T2400	486DX2/50	9.5" Dual Scan	320MB	2148
T2400	486DX2/50	8.4" Active	320MB	2698
T2450CT	486DX4/75	9.5" Active	320MB	3098
T2450CT	486DX4/75	9.5" Active	500MB	3198

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- NEW! Lithium Ion Battery for extra long life
- PanVision graphic for up to 1024x768 resolution
- 2 Type II or 1 Type III PCMCIA slot

Model	Screen	Hard Drive	Price
486DX2/50	10.3" Dual Scan	340MB	$2398
486DX4/75	10.3" Dual Scan	510MB	2598
486DX4/75	10.4" Active	510MB	3548
486DX4/75	10.4" Active	700MB	3798

AST Ascentia 950N

- LARGE 10.4" Dual Scan & TFT Displays
- 8MB RAM Standard
- Removable HD and Floppy Drive
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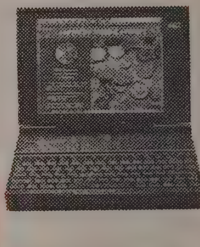

Processor	Screen	Hard Drive	Price
Pentium™75	10.4" Dual Scan	500MB	$3228
Pentium™75	10.4" Dual Scan	800MB	$3498
Pentium™75	10.4" Dual Scan	1.2GB	$3968
Pentium™75	10.4" Active	800MB	$4598
Pentium™75	10.4" Active	1.2GB	$4998

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Processor	Screen	Hard Drive	Price
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486DX2/50	10.3" Dual Scan	340MB	2448
486DX2/50	10.3" Dual Scan	520MB	2798
486DX2/50	10.4" Active	340MB	2648
486DX2/50	10.4" Active	520MB	2848
486DX4/100	10.3 Dual Scan	340MB	2878
486DX4/100	10.3 Dual Scan	520MB	3098
486DX4/100	10.4" Active	340MB	-3278
486DX4/100	10.4" Active	520MB	3478

HP OmniBook NoteBook PCs 600 Series

Lightweight with Performance

Processor	Screen	Hard Drive	Price
486DX2/50	8.5" Dual Scan	170MB	$2298
486DX2/50	8.5" Dual Scan	260MB	$2448
486DX4/75	8.5" Dual Scan	170MB	$2748
486DX4/75	8.5" Dual Scan	260MB	$2928

HP LaserJet Printers

HP LaserJet 4L	$498.00
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HP LaserJet 5MP	$998.00

HP Scanners

HP ScanJet3C, Color	$948.00
HP ScanJet3P, Greyscale	$448.00
HP DeskJet 1600C	$1298.00

HP InkJet Printers

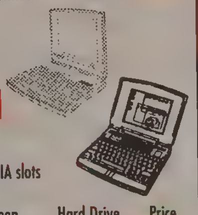
HP DeskJet 320	$298.00
HP DeskJet 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
HP DeskJet 660C	$478.00
HP DeskJet 1600C	$1298.00
HP DeskWriter 320	$288.00
HP DeskWriter 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
HP DeskWriter 660C	$478.00
HP DeskJet 1600CM	$1898.00
HP OfficeJet	$688.00
HP Fax 700	$578.00

Texas Instruments Pentium Power With PCI Bus

TravelMate 5000

- PCI bus Architecture to optimize Pentium processor performance
- 2MB Video RAM
- 16-Bit Sound, speaker, microphone & MIDI

Processor	Screen	HardDrive	Price
Pentium74MHz	10.5" Dual Scan	500MB	$3848
Pentium 75MHz	10.4" Active	772MB	$4598



TravelMate 4000M

- Brilliant color display
- 2 Type II or 1 Type III PCMCIA slots
- 16-Bit Sound card

Processor	Screen	Hard Drive	Price
486DX2/50	9.5" Dual Scan	340MB	$1998
486DX2/50	8.4" Active	455MB	2198
486DX4/75	9.5" Dual Scan	455MB	2198
486DX4/75	8.4" Active	340MB	2198
486DX4/75	8.4" Active	455MB	2448
486DX4/100	9.5" Active	525MB	3248

Versa P

Lowest Priced Pentium Notebook

2 Type II or 1 Type III PCMCIA slot
Removeablel HD, Floppy, & Screen
Integrated speaker & microphone

Processor	Screen	Hard Drive	Price
Pentium 75	9.5" Active	340MB	$3998
Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	540MB	$4448
Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	810MB	$4798

Versa M

Highest Resolution & True Color Display

2 Type II or 1 Type III PCMCIA slot
Removeable HD, Floppy, & Screen
Integrated speaker & microphone

Processor	Screen	Hard Drive	Price
486DX4/75	9.5" Dual Scan	340MB	$2298
486DX4/75	9.5" Active	540MB	$2998
486DX4/75	9.5" High Res.	540MB	$3198
486DX4/100	9.5" True Color	540MB	$3398
486DX4/100	9.5" Active	810MB	$3998
486DX4/100	9.5" High Res.	810MB	$4248

NEC Versa V

"V" for Value

Processor	Std/Max RAM	Screen	Hard Drive	Price
486DX2/50	4MB/20MB	9.5" Dual Scan	250MB	$2198
486DX2/50	4MB/20MB	9.5" Dual Scan	340MB	$2348
486DX2/50	4MB/20MB	9.5" Active	250MB	$2348
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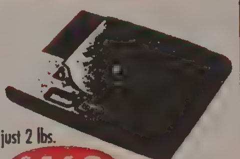

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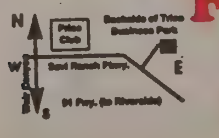

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head uncovered. In the France that formerly sheltered Khomeini, by 1995 a woman could get arrested for wearing a head scarf in a public school. In the early days of this country, saying the word "hell" at the wrong time could land you in the stocks; there is still a law on the books in Maryland that requires burning a hole through the tongue for blasphemy, yet it is no longer enforced now that such words are commonly heard on television.

> There is still a law on the books in Maryland that requires burning a hole through the tongue for blasphemy, yet it is no longer enforced now that such words are commonly heard on television.

Not so long ago teaching evolution was considered blasphemous enough to get you fired or brought up on charges. Indecency is whatever enough people say it is, and it varies with time and place. The Internet doesn't stop at any one place, so there will always be items from one part of the world that will be considered indecent on other parts of the Internet.

Huckleberry Finn, by Mark Twain, uses the word "nigger," and various parents' groups have tried to ban it because that word is now socially objectionable, even though one of the main points of that book is that contemporary attitudes towards black people were wrong. Is that novel therefore indecent, and anyone who posts excerpts from it liable?

What about other works by Twain? If he wrote one thing that was "indecent" must all his works be suspect? Should the works of one of America's greatest writers be prohibited to everyone on the Internet because some parents somewhere object to them?

Misunderstandings are always common. Nowadays ordinary behavior in Southern California could get you arrested in Vermont. If you post it on the Internet, after CDA you could be fined. A passionate love letter to your spouse that accidentally gets misdirected could land you in jail. Don't even think about art, which often depends on ambiguity and irony.

CDA doesn't even say who gets to complain, or where. The Louvre is online. Can it be sued for providing nudes by Old Masters? Can any ISP that provides access to such pictures? Can an Internet user in Saudi Arabia sue an Internet user in the United States for advocating multiparty democracy? That's an indecent idea in many parts of the world. Exactly where does prohibiting "indecent" material

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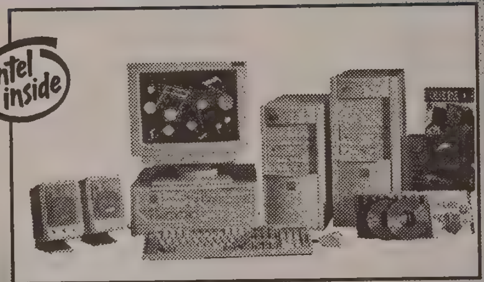

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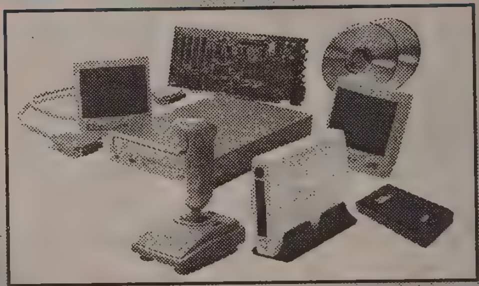

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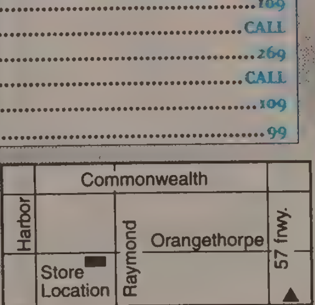

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The Economic Problem

CDA would put hundreds of small Internet Service Providers (ISPs) out of business, since they would not be willing to take the risk of legal action. But big ISPs wouldn't be immune, either. The final clause of CDA is quite explicit that each and every person who posts anything prohibited by CDA can be prosecuted:

(a) If any provision of this Title, including amendments to this Title or the application thereof to any person or circumstance is held invalid, the remainder of this Title and the application of such provision to other persons or circumstances shall not be affected thereby.

Even the deepest pockets can be emptied by that kind of legal action. One public flame war by ISP staff and another ISP out of business.

There are other ways CDA can get an ISP. Sen. Exon, the sponsor of the bill, said in his testimony that:

For instance, if an access provider were to create a menu to assist its customers in finding the pornographic areas of the network, then that access provider would be doing more than solely providing access to the network.

Well, YAHOO is "a menu to assist" in finding all sorts of areas. Put up a web crawler, go to jail. Elsewhere the Senator says that providing an index would be actionable. Thread your Usenet newsgroups, go to jail.

Technical Solutions

As we already remarked previously in this column ("All the Data That's Decent?" *MicroTimes* #136), there are already technical solutions available to limit access to material on the Internet, and parents are perfectly capable of deciding when to apply them. Since that column, even more such technical solutions have become available.

As Sen. Feingold said in his testimony against CDA:

None of the technical safeguards available, such as blocking software and provider screening, are perfect, but the nice thing is they do not violate the First Amendment.

To trade the First Amendment for spurious protection against a non-problem would be bad economics indeed.

The New McCarthyism

In the 1950s, Sen. Joseph McCarthy forced numerous Americans to face his committee and answer the question: "Are you now or have you ever been a member of the Communist party?" In addition, thousands of people were blackballed by their employers out of fear that they might be so accused, either in the Senate or in the House Un-American Activities Committee.

Joe McCarthy had a high political ride while it lasted, at the direct expense of thousands of his fellow citizens, and to the detriment of the

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nation at large. Eventually somebody stood up in Congress and said, "Have you no shame?"

Communism is dead, but pornography, especially child pornography, has taken its place as the political expedient of this decade. Very few people actually were Communists in the 1950s, but even fewer wanted to defend anybody so accused, for fear of being tarred with the same brush. Child pornography is almost nonexistent, but few people want to be seen as defending it or any kind of pornography in this age of "family values."

> Because only a small percentage of the US population is currently on the Internet, and those who are are widely perceived as apolitical elitist white male techno-nerd pornographers, many politicians consider the Internet to be a safe target for political grandstanding.

Lots of politicians are riding high on this "anti-pornography" thing. If they continue to do so it will be at the expense of hundreds of small ISPs closing (which will make Internet access harder to get), of a general dumbing-down of Internet traffic (thus reducing the value of the Internet to those who can get it), and to the increased expense of even the larger Internet access providers (thus raising the cost of the Internet to those who can still get it). The greater expense will be to the economic viability of this country, and to its social fabric. The greatest expense will be to the legal and social tradition of free speech in this country and in the world.

We call on someone to stand up in the US House of Representatives and say "This has gone far enough!"

What You Can Do

The most immediate effect of the Senate vote of 14 June has been to make online use of the so-called seven dirty words a sort of civic duty, judging by their suddenly increased use in otherwise mild-mannered messages on Usenet and the Internet. This is a sort of solidarity, and it will make us all feel a damn sight better, which is good, but it's not enough.

We recommend that everyone concerned about S.314 and the issues it represents call or write your Representative or Senator. They work for you; you elect them; you pay their salary. Senator Exon has decided to retire, but others will be up for reelection. Call or write Vice President Al Gore and President Bill Clinton, as well.

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The offices of the President and Vice President are reachable online as:

president@whitehouse.gov
vice.president@whitehouse.gov

Sen. Exon does not have an electronic mail address, although many other Congress members do. For example, the cosponsor of S.314 is Senator Slade Gorton, Wash., *senator_gorton@gorton.senate.gov* .

Most Senators can be reached by paper mail as:

Senator Real Name, State
US Senate
Washington, DC 20510

Most House members can be reached by paper mail as:

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All can be reached through the US Capitol switchboard, (202)224-3121. See the URL already cited, URL:*http://www.zilker.net/senate/s314.html* for more specific paper addresses, telephone numbers, and electronic mail addresses, or get them directly from the federal government:

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Or send mail to:

vtw@vtw.org (put "send alert" in the subject line)
cda-info@cdt.org (General CDA information)
cda-stat@cdt.org (Current status of the CDA)

> If this bill becomes law, you will be liable for up to $100,000 in fines and up to two years in jail for making an "indecent" comment.

If you are not a US citizen, don't let that stop you. There's no reason you can't contact US elected officials and express your concern over the international effects of CDA. International concern about US domestic laws is sufficiently rare that you may well get their attention.

What To Send

The simplest statement is often the most effective, especially on the telephone. "As one of your constituents, I oppose the Communications Decency Act of 1995," will do very well.

That one sentence alone will address the most basic problem of education we face. Because only a small percentage of the US population is currently on the Internet, and those who are are widely perceived as apolitical elitist white male techno-nerd pornographers, many politicians consider the Internet to be a safe target for political grandstanding. Most politicians don't understand the value of the Internet, so they don't care how much they damage it. But values every politician understands are public opinion and votes. Congress needs to know that Internet users value this technology and are willing to say so, articulately, quickly, and frequently.

You might also want to consider writing a letter to or meeting with your elected representatives or their staff to address the other problem of education regarding elected officials and the Internet. Sen. Exon remarked on the Senate floor: "My generation—I have not figured out how to use the VCR yet. I have a blinking 12 I do not know how to get rid of." He is not unusual among elected representatives, most of whom have little or no understanding of recent technology, much less of the Internet. Help teach them.

Finally, don't assume this bill is the last you will hear of this issue. Each US state regulates telecommunications to some extent, and if you are not in the US, you are not immune: remember Hong Kong.

Act now or let the future be: "Do you now or have you ever made, transmitted, or otherwise made available any comment, request, suggestions, proposal, image, or other communication which is obscene, lewd, lascivious, filthy, or indecent?" ■

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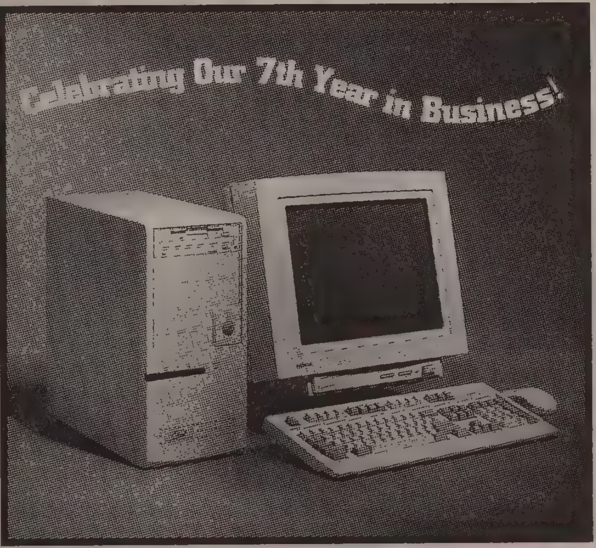

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Make Sure You Get The Computer System You Paid For!

We suggest that when you are shopping for a new computer system, you watch out for the following problem areas:

CPUs: Some 75MHz Pentium Processor systems are being sold as 90 or 100MHz systems. Unscrupulous vendors are REMARKING the 75MHz Pentium chips as 90 and 100MHz. We have been approached to buy such remarked processors. We refused. The would-be supplier's response, "Well you are about the only one that's not using them. All your major competitors are!" Vendors that use these remarked CPUs set the jumpers on the motherboard to boot up the system at 90 or 100MHz. As a result processor reliability is jeopardized and, of course, you're being charged for something you're NOT getting.

Memory: Watch for USED memory. A good indicator is mixed brands of chips on the SIMM module(s).

Video Cards: Check the type of video card and make sure you're getting a local bus (VL-Bus or PCI) SVGA video card. Some vendors slip in an ISA (16-bit) SVGA card—sometimes with less than 1MB of memory. Likewise, watch for DRAM being used instead of the VRAM on the high-end cards. Compare only the same brand and model card.

Hard Drives: Make sure you ask whether the hard drive is new or REMANUFACTURED (ie., used and rebuilt). Also look for enhanced IDE drive (EIDE). They are much faster than non-EIDE if you have the corresponding hard drive controller. Without that controller they are no faster.

Motherboards: There have been cases where people have purchased VL-Bus or PCI systems only to find their computer equipped with less expensive, outdated ISA motherboards (and cards).

Legal Software: Even with all the policing being done by software makers, many new computers are being sold with illegal copies of DOS, Windows and other programs. You won't find this out until you try to call the software supplier for support. Be sure, you get proof that your software is legal. Unscrupulous sellers can save almost $100 by using illegal copies of DOS and Windows. If you don't receive disks and documentation (including the Certificates of Authenticity), demand them—or that the illegal software be removed. There is no title transferred for pirated software. If someone is offering you $100s of dollars of software, with no disks or documentation, you can be sure that software has been pirated. Pirated software hurts all computer user — by depriving legitimate suppliers of their revenue and in turn forcing everyone to pay more for new products and upgrades. And obviously, you have nothing to prove ownership when you want to upgrade. If you want to report a suspected software pirate, call Software Publishers Association at (800) 388-7478.

Here today, gone tomorrow: Vendors just seem to drop off the face of the earth. If you purchased a computer from them your support is the phone company's message "That number is no longer in service." Make sure the company you buy from has been in business for more than a year or two. Service and warranty are lip service if the seller isn't around to provide the service. Other than for hard drives, it is almost impossible to get warranty service on defective components which are not returned for repair or replacement through the retailer.

FCC Class B certification: The Federal Communications Commission (FCC) requires that any system which can be operated in the home and most offices (i.e. ALL the systems you see at local computer shows and in the computer stores) MUST have been tested for electrical interference, had the test data submitted to the FCC, and had a certificate of compliance ("grant") issued by the FCC before such a system can be marketed (advertised) or sold. Failure to comply can result in a $70,000 fine per system otherwise marketed or sold. If you don't see an FCC ID # on the back of the system unit, it is illegal—period. The FCC regulations are to help avoid PC-generated electrical interference which may affect TV and other communications equipment. FCC class A systems are NOT legal for the home or office environment.

With some system vendors, you don't get what you pay for. Rather you receive inferior, used or illegal components. It is definitely a "buyer beware" market out there. If you see a computer advertised at unbelievably low prices, then the supplier may have used one or more of these fraudulent "approaches".

The profits on new computers are paper thin. This means that you can't buy directly comparable computers at big savings. If someone's price is more than 10% below our price for a system with directly comparable specifications (i.e. same component manufacturers and product models), the odds are that the vendor is cutting corners somewhere. You get the result (or lack thereof).

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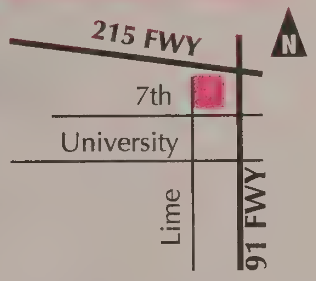

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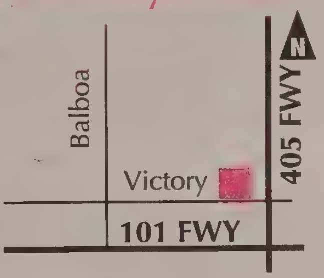

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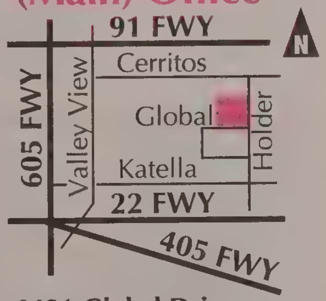

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Never Mind The Lawyers—Look At The Features

Red-herring issues often confuse the computer industry. These days, there are plenty of false trails and meaningless subplots that really aren't relevant to the outcome of the story—like the stolen money in Hitchcock's *Psycho*.

The flap over whether or not the Justice Department will make Microsoft remove the Microsoft Network (MSN) from its much-anticipated Windows 95 operating system is one such McGuffin. The only real plot line behind MSN worth discussing at this point is the Windows 95 technology story that will truly thrill audiences. Yet, Microsoft's powerful PR machine has been unable to get this hot technology message heard over the din created by the clanking legal and business issues that have dominated the headlines. It's as if *Notorious* was "really" about Cary Grant finding the secret ingredient for Nazi bombs and not the love story involving Ingrid Bergman.

Birth Of The Connectoids

Actually, the MSN-bundling issue is the tail wagging the dog. The innovation found in Windows 95 is the central plot, particularly the ease with which users will be able to configure their systems to access not only MSN, but any address or uniform resource locator (URL) on their networks or the Internet with the click of a mouse. That Microsoft has so thoroughly integrated access to MSN within Windows 95 says volumes more for the power of the operating system compared to the myopic competitive challenges that distract the legions of professional industry analysts.

In many respects, navigating MSN will be no different than navigating other areas of Windows 95. In fact, MSN is an extension of the new Explorer feature that provides a new way to look at the desktop. Most importantly, Windows 95 supports object linking and embedding (OLE), which enables users to create "shortcuts" to remote network addresses. These connectoids provide quick access to URLs that can be referred to from within a variety of word processing, spreadsheet, or other kinds of documents, or as icons on application menu bars. This allows a user to navigate the Internet as easily as navigating the desktop.

These connectoids are independent of provider and can point to anywhere, and will. There is no incentive to limit competition in this area. Pending Justice Department decisions concerning the right of Microsoft to use alleged anticompetitive means to distribute MSN miss the point. This integrated functionality will become a major part of your use of Windows 95 whether or not Microsoft bundles MSN with the operating system.

> **QVC** also has signed on, and in mid-July was pre-selling **over ten thousand copies** of Win 95 on air per day at a **whopping $89.99 plus** shipping and handling.

And it's only a matter of time before America Online, CompuServe, Prodigy, and Big Bubba's Online Emporium and BBS begin broadcasting their own freeware connectoids over the Internet so users can incorporate them as well into their everyday computing.

Offerings A Go-Go

MSN, after all, is just a newborn online service that doesn't even yet provide access to the Internet. But what a cute baby with so much promise...

A flock of computer industry vendors and content and service providers have already signed on with Microsoft as godparents, to be present at creation, and to give MSN some needed pizzazz from the get-go. MSN subscribers will be able to access vendors like Borland, Dell, Gateway 2000, HP, and Lotus.

In addition to NBC, other content providers will include American Greetings, C-SPAN, Hollywood Online, Kodalux, the ubiquitous Starwave, Women's Wire, and the stable of Ziff-Davis titles. Starwave, for instance, will host Outdoor Online and ESPNET SportsZone, a multimedia information service where fans can get news and interactive profiles or share opinions about their favorite teams online. Jazz Central will provide live-performance schedules, ticket information, and forums where musicians and fans can interact. QVC also has signed on, and in mid-July was pre-selling over ten thousand copies of Win 95 on air per day at a whopping $89.99 plus shipping and handling.

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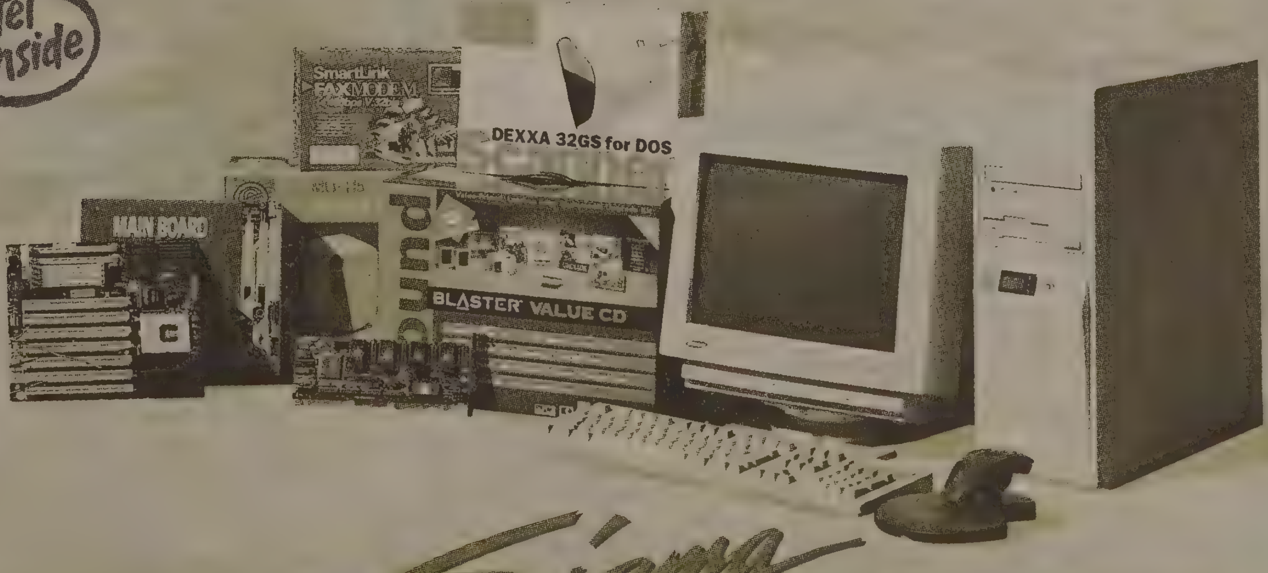

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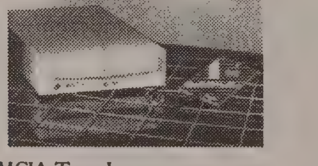

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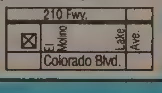

include CNBC, Dun & Bradstreet, *Entrepreneur* magazine, GE Information Services, the Small Business Administration, LEXIS-NEXIS, TRW, and even the United Parcel Service. MSN believes these, plus other providers, will form a core group of services that together will be extremely attractive to small-office business users who can use MSN as a remote office.

In addition to its wealth of news coverage, as part of the alliance with NBC, Microsoft and the TV giant will develop integrated products that combine online, CD-ROM, and interactive TV products that enable users to move from one medium to another easily and quickly.

Other strategic business relationships include cable giant TCI's acquisition of 20% of MSN. This union preps the way toward mass-audience use of MSN due to TCI's large potential subscriber base and high bandwidth. Meanwhile, Microsoft has formed relationships with UUNET and licensed Mosaic technology from Spyglass and NCSA. This certainly promises a dedicated, global, TCP/IP network that will include Web and other Internet services, for sure. But not now, maybe by year's end with v1.0.5.

Underscoring this potential global reach, over seventy European providers have been lined up to participate on MSN including Club Med (France), Great Universal Stores (UK) SAP AG (Germany), Riverland Publications (Belgium), and CD Select (Holland), among others. InterGreetings (UK) will provide specialized greetings delivered as email. UK-based Loot will provide extensive classified advertising services; *La Tribune Desfosses*, a leading French financial daily newspaper, will offer stock and financial data, while *Le Nouvel Observateur*, a French weekly, will introduce online chess as well as an online astrology forum.

Even if its strategy of bundling MSN with Windows 95 is thwarted by the Justice Department, Microsoft will offer a wide array of one-click links to MSN to be embedded within new releases of the company's own software titles. Connectoids to MSN will begin appearing in Microsoft titles including Money, Works, Publisher, and yet-to-be released titles on topics that require frequent updates like Microsoft's Complete Baseball.

Without a doubt, other savvy publishers are also working on connectoids so customers can click and connect. But the beauty of this Win 95 capability is that the one-click connection on the menu bar in Quicken doesn't necessarily have to be a connection to MSN; it could be a built-in pointer to Intuit's own Web site independent of MSN. This will hugely enhance publishers' ability to interact with customers to add value and extend application functionality.

What About Everybody Else?

Perhaps, ultimately, there really is no way to fully escape the gaping maw of Microsoft's hegemony of the computer industry at this time. But Rome was not built in a day nor did it collapse overnight.

Individual tastes being what they are, MSN will certainly not be home to all; not soon, anyway. So expect America Online, Prodigy, and CompuServe to continue to flourish, if not accelerate their respective growth. Once introduced to the online market, millions of users who decide MSN is just not for them will literally fall over the transom into the folds of the existing online services. It could happen. ■

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Web Page Listings

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BUSINESS

Adult CD-ROM Outlet *http://www.webcom.com/~dml/nubody/nubody.html* The best in mail order Adult CD-ROMs with pictures and free catalog. 18+ only. [Exp. #142.]

Advanced Computer Products *http://www.liberty.com/home/traveller* The home of Advanced Computer Products and the online swapmeet! Also home to ACP Components. [Exp. #145.]

Agora Digital *http://www.agora.net/* Online service for new and traditional media, including searchable database of industry talent. [Exp. #143.]

Air Brokers International *http://www.aimnet.com/~airbrokr* Visit places around the world, online world travel newsletter, circle the globe, Asia, Pacific. [Exp. #145.]

Aircraft Spruce & Specialty Co. *http://www.aircraft-spruce.com* Aircraft Spruce is the premiere distributor of aviation supplies for certificated and home-built aircraft. [Exp. #145.]

Albin Engineering Services, Inc. *http://www.hooked.net/users/aesi/* Albin Engineering Services, a leading placement firm, has several openings for SW Engineers. [Exp. #144.]

Alps Electric *http://www.alpsusa.com/index.html* Photographs and complete specs for the most popular products of this computer peripheral manufacturer. [Exp. #145.]

Altera Corporation *http://www.altera.com* Company/product information, job opportunities for Altera (NASDAQ: ALTR), leader in high-performance programmable logic devices and CAE tools. [Exp. #142.]

AP Research *http://www.apresearch.com* Market research reports and consulting services for PC cards (PCMCIA). [Exp. #141.]

Apartment Locators, Inc. *http://www.homefair.com/apt.aptla.html* Apartment hunting in LA and Orange County areas. [Exp. #144.]

Around-The-World Airfares & Adventures *http://www.highadv.com* High Adventure Travel's catalog of discount around-the-world airfares, Himalayan treks, African Safaris, etc. [Exp. #143.]

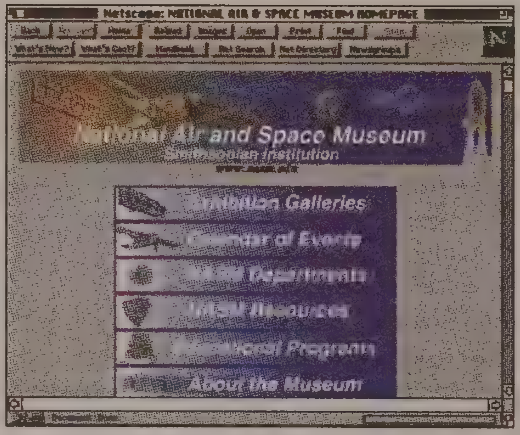
Bill's House Of Financial Independence *http://www.vpm.com/selfhelp* Providing business opportunities for the beginner and seasoned pro. For as little as $20. [Exp. #142.]

BookNet *http://www.armory.com/~timeline/SCbooks.html* Santa Cruz County bookstore catalog. [Exp. #140.]

Braxton Indexing's Home Page *http://www.thebeach.com/bus/braxton/* Publisher of indexes in legal, scientific, and research areas. [Exp. #145.]

Cadkey Developer's Network *http://www.cadkey.com* Makes available the Software Development Kit to Cadkey's Strategic Development Partners. [Exp. #145.]

California Computer Expo '95 *http://www.qualcomm.com/users/gnash/cce.html* Largest consumer computer show on West Coast. August 17–20, San Diego Convention Center. 1-800-573-3247. [Exp. #143.]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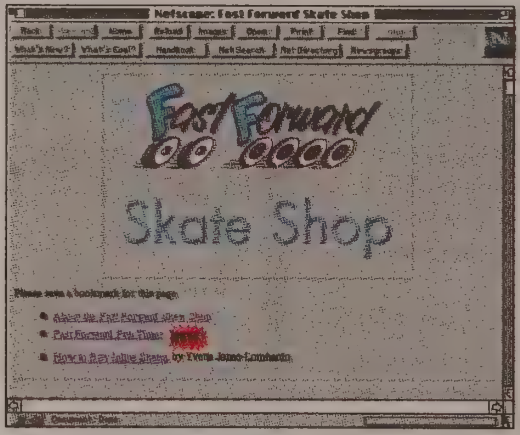
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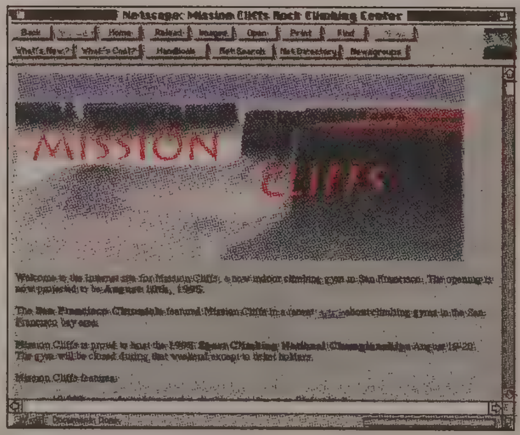
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CLIFFS

http:// www.mission-cliffs.

CD Source *http://www.cdsourceline.com/cds* An online resource center for CD-ROM and multimedia information. The site utilizes public key encryption for secure transactions. [Exp. #145.]

Center For Electronic Art *http://www.cea.edu/* Discover the Artists' Exhibition and access up-to-the-minute information about classes, schedules, events. [Exp. #145.]

ChiPants *http://www.aonet.com/chipants/* ChiPants, the comfortable and intelligent pants for men and women, are now available on the World Wide Web. You can also email requests and questions to *chi@nbn.com* . [Exp. #145.]

Compuforms Co. *http://www.cpfc.com/compuforms* Electronic forms, continuous forms, labels, checks, and downloadable artwork. [Exp. #144.]

Credi-Call *http://branch.com:1080/cc/cc.htm* Use your credit card as discount calling card. Up to 90% savings on long distance. [Exp. #143.]

CyberNautix, Inc. *http://www.community.net/~nautix/* UNIX and Internet technical services firm. System management, training, and custom services described. [Exp. #143.]

Cyboutique *http://www.romantasy.com* A unique, interactive crossroads for exploring issues, ideas, and products to enhance sexual well-being and encourage intimacy. [Exp. #145.]

Cyno Technologies *http://www.cyno.com/cyno/* Cyno Technologies, Inc. provides computer user authentication systems, including solutions for enhanced remote access security. [Exp. #142.]

Digital Zone *http://www2.uplex.net/dzone/* Resource for buyers to contact vendors in the printing, advertising, service bureaus, and photography business. [Exp. #145.]

Easy Resume *http://www.dnai.com/~lji* Free resume outline and sample resume for software developers. [Exp. #140.]

Fast Forward Skate Shop *http://www.fast-forward.com/* Largest distributor of inline skates and accessories. Online guide to buying inline skates. [Exp. #145.]

FaxBox Network *http://voyager.via.net/netbiz/faxbox.html* How to have your own fax-on-demand box and make money. [Exp. #142.}

Furnituremaker And Design *http://www.channel1.com/users/postma* Steve Postma Furnituremaker and Design specializing in custom veneer and curved furniture. [Exp. #144.]

Geoworks Home Page *http://www.geoworks.com* Information about Geoworks, a supplier of operating system software and applications for the emerging Consumer Computing Device market. [Exp. #145.]

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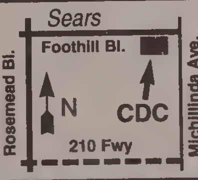

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Web Page Listings *continued...*

Gold Mountain Land *http://www.aimnet.com/~ayl/antelope.htm* Land investment opportunities with prices starting at 30¢ per square foot. [Exp. #145.]

Great Fax Cover Sheet Co. *http://emporium.turnpike.net/W/wortB/welcome.html* Unique products at great prices. Something for everyone even if you don't fax. [Exp. #145.]

homepage.html *http://www.hooked.net:80/users/tpitre/homepage.html* Personal page for Pitre and MSRI, Inc. [Exp. #141.]

Hotel Emeraude Plage *http://www.well.com/user/frigate* Information on the Hotel Emeraude Plage on St. Bart's in the French West Indies. [Exp. #145.]

iambic Software *http://www.iambic.com/iambic* Software for the Newton MessagePad. Contests, tips, and links to other Newton-related areas. [Exp. #145.]

Immigration And Visas *http://www.schulzlaw.com/~mschulz* Law offices of C. Matthew Schulz. Information on US visas and employment-based immigration. [Exp. #144.]

index.html *http://www.manual3.com/manual3* Manual 3, Inc. is a 13-year-old technical writing firm serving the technology industry. [Exp. #140.]

Intelligent Media *http://smartworld.com/intmedia* Full-service interactive multimedia production company, service bureau. [Exp. #141.]

Investigative Resources *http://www.lainet.com/~factfind* The online brochure of Investigative Resources International, a full service southern California investigative agency. [Exp. #145.]

Kaua'i Exotix *http://planet-hawaii.com/~exotix/* A small tropical flower business in Kaua'i doing all of our business via the Internet. [Exp. #144.]

LinkStor Home Page *http://www.linkstor.com* PC network and storage reseller in Silicon Valley. [Exp. #143.]

LucasArts *http://www.lucasarts.com* The Web site for LucasArts Entertainment, developer, and publisher of interactive entertainment and educational software. [Exp. #145.]

Marine Jewelry By Robert Straight *http://www.stw.com/rls/rls.htm* Ocean life rendered in fine gold jewelry. [Exp. #142.]

Midnight Special Bookstore Home Page *http://msbooks.com/msbooks* Midnight Special's motto is taken from Bertolt Brecht: "Hungry man, reach for the book: It is a weapon." [Exp. #141.]

Mind Logic *http://www.xmission.com/~wwwads/mind/logic.html* CD-ROM disks, hardware, and video gear at wholesale and retail prices. Worldwide mail order. Freebies too! [Exp. #145.]

Mind Science Research Institute, Inc. *http://www.he.tdl.com/~msri* Delivers management and technology training for the lifelong learner. [Exp. #145.]

Mobile Access *http://www.aimnet.com/~ayl/900.htm* Learn all about investing in the lucrative 900 telephone business and what it has to offer you. [Exp. #145.]

Mole-Richardson *http://www.mole.com* Hollywood lighting manufacturer, rental company, expendables store movie memorabilia store [Exp. #145.]

Natural World *http://tlm.tlm.net/natwld.html* Natural World makes 100% non-toxic, all-natural, chemical-free products for cleaning, infant care, nutrition, and pet care. [Exp. #143.]

NetCity *http://www.netcity.com/* An electronic metropolis offering online shopping, personal and professional services, auto center, farmer's market, and entertainment. [Exp. #145.]

New Wave Culture Plaza, Inc. *http://www.rahul.net/newwave/newwave.html* A mail order company dedicated to Chinese culture. Chinese CDs, LDs, CD-ROMs... [Exp. #140.]

Novell Service & Support *http://www.aimnet.com/~yungi/lansol.html* Novell network specialists—CNE. We offer Novell-authorized network installation, service, and support. [Exp. #143.]

NTI Of California *http://www.net101.com/nti/* Performance, quality, and value with California's premiere long distance service for businesses and residents. [Exp. #145.]

Online Islamic Bookstore *http://www.sharaaz.com* Quality books, CD-ROMs, tapes, software on Islam. View screenshots and descriptions of products. Order online. [Exp. #143.]

Palookaville Hats *http://www.primenet.com/~hanibal/hat.html* Cool hats for the Global Village Idiot in all of us. [Exp. #141.]

PCTravel *http://www.pctravel.com* or *http://www.nando.net/pctravel.html* Real-time online air reservation and ticketing service with encryption and free overnight delivery of tickets. [Exp. #143.]

PhoenixWeb *http://www.ptltd.com* BIOS, plug and play SW, PCMCIA SW, Eclipse SW for desktop, portable, and hand-held PCs. [Exp. #140.]

Photo Restoration, Retouching, & Scanning Service *http://www.wp.com/PhotoRestoration* Highest quality and lowest prices for digital photo restorations. Quick turnaround, too. [Exp. #145.]

Rational Data Systems *http://www.rds.com* Just the basics so far, including employment and WWW contracting opportunities. Fancier stuff to follow. [Exp. #144.]

Regent Press *http://www.sirius.com/~regent* A printer in Berkeley and publisher of *The Oracle* (Facsimile Edition) and *The Fringe* Series. [Exp. #144.]

Robert Lee Entertainment (RLE) *http://www.rle.com/~rle/index.htm* RLE is an independent film, video, and WWW page production company. [Exp. #144.]

Salsa Express *http://www.stw.com/se/se.htm* Southwestern culinary catalog. One-stop shopping for your salsa and hot sauce needs. [Exp. #142.]

Secrets Of Home Theater And High Fidelity *http://www.sdinfo.com/* Electronic magazine on home theater and high fidelity, with reviews of equipment, feature articles, press releases, etc. [Exp. #145.]

Sextant *http://mind.net/wsirota/sextant/sextant.html* Distribution site for Sextant, shareware program that presents an environment for editing and using Netscape Navigator's bookmarks. [Exp. #145.]

Software Technology Service *ftp://ftp.crl.com/ftp/users/ro/sts/StsWWW/homepage.html* Software and electronic analysis, design, and engineering. Specializing in unusual languages, systems, projects, and prototypes. [Exp. #140.]

Solomon Software *http://www.solomon.com/* Solomon's home page offers a single point of communications to resources with in Solomon Software, a leading accounting software developer. [Exp. #145.]

Solutions Seminars *http://www.sol-sems.com* Seminars for technical communications specialists in the development of technical information products, marketing materials, technical training materials. [Exp. #145.]

Songwriting Consultants, Ltd. *http://www.earthlink.net/~songmd/* Hit songwriter Molly-Ann Leikin helps good songwriters become hit songwriters. Check out her Songwriter's Collaboration Network. [Exp. #144.]

Southwest Airlines *http://www.iflyswa.com/* Complete flight and fare info in a very easy-to-use format; make reservations online. [Exp. #145.]

Stop Crime, Become A Tough Target *http://www.catalog.com/borelent* Personal protection devices. Stun guns, pepper sprays, alarms, crime prevention reports, and much more. [Exp. #145.]

Symmetric Technology *http://www.symmetric.com* Computer design, software development, systems, and networks primarily for Microsoft Windows and Windows NT Novell IBM-compatible computer systems. [Exp. #140.]

Visionware Home Page *http://www.visionware.com/* PC/UNIX connectivity products: PC X-Servers, terminal emulators, ODBC solutions, and free software demos! [Exp. #140.]

Walnut Creek CD-ROM *http://www.cdrom.com* Publisher of over 50 CD-ROM titles and host of the busiest ftp site on the Internet. [Exp. #141.]

Warp California, Inc. *http://www.warp.com/* Producers of Virtual Television products; site includes product demos. [Exp. #145.]

Web Books—Online Bookseller And Special Services *http://www.primenet.com/~jculp/* Online bookseller with specialties in the areas of sexuality, censorship/conspiracy, and sports. Special free services. [Exp. #142.]

World Shopping & Information Network *http://www.wsin.com* Features brilliant colorful graphics to excite and entertain. Shopping, travel, entertainment, useful resource information, more. [Exp. #145.]

WovenHearts *http://www.wovenhearts.com/* Residential assisted living. Alternative to nursing home care for older men and women. [Exp. #145.]

(x)faktor Design *http://xfaktor.com/xfaktor* (x)faktor Design specializes in traditional and electronic design implementation, including advertising, logo, publication layout, and Web page design. [Exp. #145.]

Zendex Corp. *http://www.zendex.com/* Zendex designs and manufactures microcomputer boards, systems, peripherals, and related products for the Multibus and PC Bus industry. [Exp. #145.]

BUSINESS INFORMATION

24-Hour Recorded Job Lines For The San Francisco Bay Area *http://www.webcom.com/~rmd/bay-area/joblines.html* Listing of jobline numbers. Also, pointers to other local employment resources and online job listings. [Exp. #140.]

Astro-Temp *http://voyager.via.net/netbiz/atemps.html* High-paying "temp" jobs available now by astrological sign. [Exp. #141.]

Bay Area Real Estate Network *http://www.dnai.com/~ted* An excellent resource for buyers and sellers in the Bay Area! [Exp. #140.]

BayNet Real Estate *http://www.baynet.com/re.html* The Bay Area real estate site. Enter ads for free, search through hundreds of listings. [Exp. #141.]

Consumer Mortgage Information Network *http://www.human.com/proactive.index.html* Dedicated to providing home buyers with timely and unbiased information relating to residential financing. [Exp. #145.]

Copyright Website *http://www.benedit.com* A practical Copyright resource for netizens and Webmasters. Includes audio of famous copyright infringements [Exp. #145.]

Credit Union Land *http://www.culand.com* A searchable index of credit unions you can join! [Exp. #145.]

Employment Home Page *http://www.nscnet.com/job001.htm* Dedicated to providing the best links to employment resources across the Internet. Updated daily. [Exp. #145.]

Employment Today *http://204.188.129.2/netbiz/employ.html* High-paying permanent and temporary jobs available now, plus agency listings. [Exp. #142.]

Home Owner's Page *http://www.weblink.com/homeowners/* A directory of

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486DX4-100 =======> $1055

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4X Multimdeia Kit ==========> $268

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SYSCON PENTIUM MEDIA-PLUS

- * Intel TRITION CHIP SET PCI M/B
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- * 15" FLAT SCREEN, DIGITAL SVGA Monitor (NI .28 Low Radiation)
- * 4XCD ROM, 21 CD TITLE
- * SOUND BLASTER 16 SOUND CARD
- * 101 Key Enhanced & Mouse
- * Mini Tower Case 250W Power

Pentium 75MHz ====> $1690
Pentium 90MHz ====> $1770
Pentium 100MHz ====> $1850
Pentium 120MHz ====> $2140

SYSCON PENTIUM MEDIA-PRO

- * Intel TRITION CHIP SET PCI M/B
- * w/PCI E/IDE HDD CTR, 2S, 1P, 1G
- * 16MB RAM (up to 128 MB), 256K cache
- * 1.2GB E/IDE HDD, 1.44MB FDD
- * DIAMONT STEALTH 64 VIDEO ACCELETATOR w/2MB D, 1280*1024
- * 17" FLAT SCREEN, DIGITAL SVGA Monitor
- * 4XCD ROM, 21 CD TITLE
- * SOUND BLASTER AWE-32 ASP
- * 101 Key Enhanced & Mouse
- * 7-BAY MID Tower Case w/250W Power

Pentium 75MHz ====> $2600
Pentium 90MHz ====> $2690
Pentium 120MHz ====> $2780
Pentium 120MHz ====> $3070

Popular Upgrade Option

14.4 Fax/Data Modem	$55
14.4 Fax/Data/Voice Modem	$80
28.8 Fax/Data Modem	$140
540MB to 850/1.2GB HDD	$50/100
850MB to 1.2GB HDD	$115
ADAPTEC SCSI 2940 PCI	$220

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Built in CD-ROM Standard

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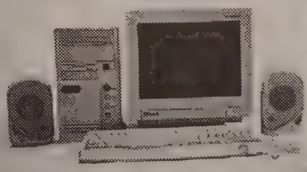
- * 1 16C550 compatible Serial Port
- * 1 EPP/ECP compatible Parallel Port
- * Other Ports: Game;Ext. Keyboard/Mouse;Ext. CRT & 100 pin connector for Docking Station
- * MicroSoft DOS 6.22
- * Carrying Bag & AC Adapter* Weight: 6.9lbs with Battery
- * 11.81"W*8.94"D*2.13"H

- * Intel Pentium CPU
- * 64-bit, 256KB Write-Back Secondary Cache Memory
- * 2MB Video RAM
- * 32-Bit PCI Local Bus Video with Windows Accelerator
- * PCI Local Bus HDD Controller
- * 16-Bit Stereo Sound with 2 Stereo Speakers and 1 Microrphone
- * 64-Bit,8MB RAM (to 32MB)
- * Removable 540MB HDD
- * Removable 3.5" FDD can be Replaced with MPEG Module
- * 11.3" 800*600 SVGA Dual Scan Color Display or 10.4" Active Matrix Color VGA Display
- * Simultaneous CRT & LCD operation

Options

- * 28.8 or 57.6 Watt Secondary Battery
- * Video+MPEG Module
- * TV Tuner Module
- * CCD Camera Module
- * AC Adapter by Battery Bay
- * Car Adapter
- * Numeric Keypad
- * Mini docking Station
- * PCMCIA Cards (Fax/Modem, Ethernet, SCSI & More)

5200 Series	11.3" SVGA Dual Scan	10.4" Color Active Matrix
Pentium75	$3025	$3405
Pentium90	$3125	$3505
Pentium100	$3225	$3605
Pentium120	$3525	$3865



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Web Page Listings *continued...*

contractors, plumbers, electricians, gardeners, and other professionals offering services to home owners. [Exp. #144.]

Homes & Open Houses *http://openhouses.com* Your comprehensive source for real estate information on the Internet. [Exp. #140.]

IndustryNET *http://www.industry.net* Keeping in touch with the computer industry. Product and service information including local suppliers. [Exp. #145.]

National Center For Employee Ownership *http://www.esop.org/~nceo* Provides information on employee ownership in the US and elsewhere and lists publications and events. [Exp. #142.]

Network World *http://voyager.via.net/netbiz/network.html* The international directory of MLM and network marketing opportunities. [Exp. #141.]

Resumes Online *http://voyager.via.net/netbiz/resumes.html* The place for job seekers to tell the world market of their availability. [Exp. #141.]

Seamless Website *http://tsw.ingress.com/tsw/* Advertisements for law firms and legal services providers; law review articles and other legal information. [Exp. #140.]

Sharrow Advertising And Marketing BizInfo Resource Center *ftp://ftp.crl.com/users/ro/csharrow/homepage.html* Advertising and marketing reports and issues, mail order catalogs, ad parodies, humor and sarcasm, digital age issues, and essays. [Exp. #140.]

The Syndicate *http://www.centcon.com/~billman/syn.html* Devoted to helping those who seek financial information. Many articles, pointers to other investment information sites. [Exp. #142.]

TechExpo WWW Directory Of Hi-Tech *http://www.techexpo.com/* Directories of: science, engineering societies; technical/engineering trade magazines; high-tech firms, products, services; much more. [Exp. #145.]

Tradenet *http://voyager.via.net/netbiz/tradenet.html* The international directory of world trade opportunities and offerings. [Exp. #141.]

TravelEZ *http://www.travelez.com* TravelEZ is a comprehensive resource of travel and leisure information on the Web, from airlines to hotels. [Exp. #145.]

What's New In Travel *http://voyager.via.net/netbiz/travel.html* The place to get "freebies," info, discounts, and hot travel deals. [Exp. #141.]

ENTERTAINMENT

Access Monterey Peninsula! *http://www.mty.com* Access Monterey! features extensive information for the Monterey Peninsula and sponsors a weekly trivia contest. [Exp. #140.]

Aloha Dateline *http://www.aimnet.com/~ayl/aloha.htm* "I found love on the Aloha Dateline! It's a fun, safe, exciting way to meet!" [Exp. #145.]

Astrology By Moonlight *http://voyager.via.net/netbiz/astrol.html* Monthly personal horoscopes and astrological information. [Exp. #141.]

Athlete's Diary *http://alumni.caltech.edu/~slp/tad.html* The Athlete's Diary for Windows, Mac, and DOS—complete information and full-featured demo copies. [Exp. #140.]

ATP Tour Online *http://atptour.com* The most comprehensive tennis Web page on the Internet, with news and information about men's pro tennis. [Exp. #145.]

Awesome Music Site *http://emusic.com* Music information, superfast browsing, 40,000 album images. Tons of fun. [Exp. #145.]

Batman Forever *http://batmanforever.com* Artwork, trailers, storyboards, behind-the-scenes glimpses into the making of *Batman Forever*, and more. [Exp. #143.]

Bay Area Movie Guide *http://www.movietimes.com* Bay Area Movie Guide offers movie listings, information, reviews, links to movie company web sites, videos, sound clips, publicity photos, and general cinema information. [Exp. #144.]

Brazilian Mail *http://www.BrazilianMail.com/Brazil* The first Brazilian commercial site, art gallery, business center, newsstand, travel agency, and more. [Exp. #144.]

Buzznet Magazine *http://www.hooked.net/buzznet* An SF-based online cultural Web magazine capturing colorful, fresh images, words, and sounds constantly. [Exp. #141.]

CDworld: Largest Internet Discount Music Store *http://cdworld.com* Discount music store with over 100,000 major and independent label music CDs and videos. Ship worldwide. [Exp. #141.]

Ceolas Celtic Music Archive *http://celtic.stanford.edu/ceolas.html* Home of Celtic music on the Net, including tunes, artist profiles, sound samples, resources, etc. [Exp. #143.]

CGC Polar Sea *http://www.compumedia.com/~jef* Extensive graphics covering last summer's expedition to North Pole and latest Deep Freeze to Antarctica. [Exp. #141.]

Classic Rock All Stars *http://www.webcom.com/~gsmmedia/crastars* Members from Iron Butterfly, Rare Earth, Sugarloaf, and Spencer Davis Group present their Summer '95 Tour. [Exp. #144.]

Clocks & Time *http://glenellyn.iit.edu/~clocks/clocks/clocks.html* Over 200 pages: clock, watch collecting, repair, sundials, time standards: organizations, museums, publications, and software. [Exp. #140.]

Crystal Rain Media Entertainment *http://www.earthlink.net/~crystal* "Hip Hop Animal Rock," award winning aerobic video for children. Sound and video clips. [Exp. #144.]

Cybercize With The CyberSet *http://www.physics.sfsu.edu/grad/lwilliam/cyberset/cyberset.html* Ten fun and easy at-your-computer exercises with the CyberSet—an online comedy team. [Exp. #145.]

Cybertown *http://www.cybertown.com/cybertown* Cybertown is a 21st century off-world electronic virtual community that provides a rich mix of entertainment, information, and commerce. [Exp. #145.]

DCI *http://www.DCIexpo.com* Get the latest information on high-tech conferences and expositions like Web World, EMail World, and more. [Exp. #140.]

Discover Starving Artists *http://www.starving.com/* An interactive art gallery featuring photography and paintings, plus a tour of 19th century Paris. [Exp. #145.]

EDGE Home Page *http://www.well.com/www/edgehome* Home page of EDGE, leading interactive entertainment publisher of *EDGE* magazine and EDGE games. [Exp. #141.]

Electronic Telegraph *http://www.telegraph.co.uk* Britain's first and best online daily news source—a crossword, too. [Exp. #140.]

Endeavour Travel *http://www.anzac.com/endnb/endvr.html* Information and discount travel packages to Australia and New Zealand. [Exp. #142.]

Enterzone *http://enterzone.berkeley.edu/enterzone.html* Noncorporate, professional Web zine. *Enterzone* is a hyperzine of writing, art, and new media. [Exp. #140.]

Enzian Theater *http://magicnet.net/enzian/* Home page of Enzian Theater, film center for Central Florida: special event info, film-related links. [Exp. #141.]

Film Analyst On-Line *http://www.kaiwan.com/~stussy/taussig/film01.html* A thoughtful analysis of popular and classical movies and the impact on popular culture. [Exp. #142.]

FLASHERS *http://www.armory.com/~grape/* Daily comics by Elliot Feldman. Bring your own trenchcoat. [Exp. #142.]

Four Leaf Clover *http://204.188.129.2/netbiz/fourleaf.html* How to play the Canadian lottery and make money every month. [Exp. #142.]

Freehead Web Page *http://wl.iglou.com/ngsippel/freehead.html* New band featuring Jim Smith of the original *Ren & Stimpy Show*! Info, gig schedules, etc. [Exp. #145.]

Galaxy Entertainment Network *http://www.power.net/galaxy* Providing entertainment information, showcasing worldwide talent, business opportunities, programming, and weekly Internet funnies. [Exp. #142.]

Gigaplex *http://www.gigaplex.com/wow* A whopping arts & entertainment web magazine featuring film, TV, music, theater, books, and celebrity interviews. [Exp. #144.]

Graffiti Wall *http://www.lh.com/cgi-bin/wall* Hot tips and interesting places on the Web. Check it out or share some of the places you have found. [Exp. #140.]

Harmony Central Music Pages *http://harmony-central.mit.edu/* Resources and links for the musician, including guitar, bass, effects, MIDI, keyboards, software, and more. [Exp. #142.]

Hotel California *http://kincyb.com/* Check into the friendliest hotel in the West. Full of Internet games, 24 hrs. chat, and adult files. [Exp. #144.]

Idea Futures *http://if.arc.ab.ca/IF.shtml* Bet on 150+ science, computer, and social controversies. Won major prize for best Web site. [Exp. #145.]

Interactivist/Go Digital Online *http://www.godigital.com Go Digital Interactive Magazine*'s home page: preview of CD-ROM, additional materials, subscribe, send stuff for inclusion, etc. [Exp. #141.]

International Channel *http://www.I-channel.com* Unique multicultural, interactive, multimedia experience combining video, audio, and animation. [Exp. #145.]

International Home Exchange Network *http://www.magicnet.net/homexchange* Listings of home exchange opportunities, local cost vacation rentals, Bed & Breakfasts, "mom and pop" hotels, and more. [Exp. #143.]

KBBS Online *http://kbbs.kbbsnet.com* Interesting Web site links, WWW business marketing info, online service info. [Exp. #142.]

Kerry's Connection *http://www.crl.com/~zallar/index.html* Comedy Impressions—live and voice mail, QB Experience musical group, SRV School of Performing Arts. [Exp. #142.]

@LA *http://emporium.turnpike.net/A/atLA/* The most complete cyberspace guide to sites with a realspace presence in the LA area. [Exp. #144.]

LAcon III *http://sundry.hsc.use.edu/lacon3/* Web site for the World Science Fiction Convention coming to Anaheim in 1996. [Exp. #144.]

Links From The Underground *http://raptor.swarthmore.edu/jahall/* Original writings, anecdotes, and links with commentary convey a Net and world view on the Web. Coordinated craziness! [Exp. #140.]

Links Golf By Bengtson Company *http://www.well.com/www/bengtson/golf.htm* Northern CA golf course directories, travel lodging, dining information, golf product information, and photos. [Exp. #142.]

Loser Love Songs *http://www.slip.net/~mbutler/index.html* Home of San Francisco power-pop band the Flex-a-Pleasers. Contains audio of every song in the catalog, more. [Exp. #143.]

Magnolia Jazz Band *http://www.sensemedia.net/sprawl/41345* Over twenty years jazzing up special events

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90MHZ	$1265
100MHZ	$1355
120MHZ	$1555
130MHZ	$1675

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- Mouse (MS-compatible)
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540MB IDE	$ 175
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SVGA 14" N-I 0.28dp	$ 200
SVGA 15" N-I 0.28dp LoRad	$ 329
SVGA 17" N-I 0.28dp LoRad	$ 595

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TEAC 4X CD-ROM	$165
Colorado Tape Back-up 250MB	$ 129

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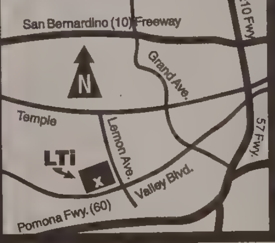

Web Page Listings *continued...*

throughout SF Bay Area. [Exp. #144.]

Match.Com *http://www.match.com* "We met on the Net!" Thanks to Match. Com, the online dating service for the '90s. [Exp. #140.]

Millennium Whole Earth Catalog *http://www.well.net/mwec/* Twenty-nine pages from the *Whole Earth Catalog* transformed into about 170 Web pages. [Exp. #142.]

Minor Leagues, Major Dreams *http://www.deltanet.com/minorleagues* Minor league baseball, hockey, arena football, Indy 500 sports apparel retail sales. [Exp. #140.]

Mission Cliffs *http://www.mission-cliffs.com/mission-cliffs/* New indoor rock climbing center in San Francisco featuring impressive 50' high overhanging walls. [Exp. #145.]

Netsurfer Digest Home Page *http://www.netsurf.com/nsd Netsurfer Digest* is a free email-delivered e-zine bringing cyberspace directly to your mailbox. [Exp. #140.]

Nightflight Essential Guide To New York/Los Angeles At Night *http://www.echo-nyc.com/~voice* The Nightflight Guide features recommendations for the hippest nightclubs, eating, drinking, and gaming establishments in New York and Los Angeles. [Exp. #144.]

Northern California Guide To Minor League Baseball *http://www.webcom.com/~rmd/baseball/minorleague.html* Schedules, directions, ticket info, etc. for San Jose and Stockton. Coming soon: Modesto, Salinas, Sonoma. [Exp. #140.]

Online World Monitor *http://login.eunet.no/~presno/monitor.html* A free, bimonthly online product for supporters of The Online World resources handbook; subscriptions available. [Exp. #141.]

Online World—Online Resources Handbook *http://login.eunet.no/~presno/index.html* Broadcasting schedules for news in many languages, world travel guides, international affairs, health, much more. [Exp. #142.]

Open Book *http://futon.sfsu.edu/%7etalon* Open Book presents "Women's Journals," an interactive piece that was created exclusively for the Web. [Exp. #141.]

Optical Illusions *http://www.lainet.com/~ausbourn* A collection of famous optical illusions presented in a gallery format. Informative and educational. [Exp. #145.]

Pikes Peak Cam *http://www.softronics.com* A spectacular, unobstructed view of Pikes Peak, updated every two minutes, from the roof of Softronics. [Exp. #142.]

Relayer *http://bbs.annex.com/relayer/gate/htm* Come and play with Relayer. Using Netscape 1.1 codes to provide audio, visual, and weirdness. [Exp. #145.]

Rock And Roll Digital Gallery *http://www.hooked.net/julianne/index.html* A digital gallery featuring poster art and images with rock 'n' roll as the theme. [Exp. #143.]

Rock Around The World *http://www.ratw.com* Rock Around the World radio shows and newspapers: music, interviews, news—the '70s through today. [Exp. #141.]

Route 66 Los Angeles Webstation *http://www.losangeles.com* Find information about movies in theaters, on TV, and on video. This is a locally focused site supported by layers of global information. [Exp. #144.]

RTFM World *http://www.dnai.com/~cthomas/rtfm* RTFM is an occasional rock 'n' roll band of Sybase tech support people. [Exp. #140.]

San Francisco Bay Area And Beyond *http://www.hyperion.com/ba/sfbay.html* Pointers to local attractions, entertainment, community services, employment, newspapers, sports, dining, and more. Updated weekly. [Exp. #140.]

San Francisco Web *http://www.sfweb.com* Body, mind, spirit, personals, neighborhoods, and, of course, business listings. [Exp. #142.]

Sega Web *http://www.segaoa.com* Product information and graphics from the interactive king. Contests for prizes. [Exp. #140.]

Serenity *http://www.tecnation.com/serenity/* [Exp. #144.]

Solomon Speaks *http://pages.prodigy.com/CA/momonk/Solomon.html* Free WWW service kind of like "Dear Abby" or "Ann Landers." [Exp. #145.]

Sports World Internet *http://www.sportsworld.com/sports/home.html* Live Sports Chat, $1000 contest, fantasy Football League, user articles. Sports experts and novices welcome. [Exp. #144.]

Susan Sutton Trio Home Page *http://ocf.berkeley.edu/~daaron/trio.html* The home page of the Susan Sutton Trio, a progressive and upbeat Latin-inspired jazz band in the north bay. [Exp. #145.]

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Sound Blaster 16 Sound Card,
60W Multimedia Stereo Speakers
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P5-133MHz	*$ 1985*

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486DX4/100, 4MB, 340MB HD	$1850
Pentium 75, 8MB, 340MB HD	$2350
Pentium 90, 8MB, 340MB HD	$2450

* 14.4 Fax/modem	$ 120	* Cellular Datalink	$ 195
* 28.8 Fax/modem	$ 235	* Docking Station	$ 435
* Ethernet Card	$ 135	* Car Adapter	$ 75

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* Medium Tower Case w/230W UL	$65
* 540MB IDE HD (Conner/Maxtor)	$165
* 850MB EIDE HD(Conner/Maxtor)	$189
* 1.2GB EIDE HD(Conner)	$279
* 16bit Ethernet(BNC/UTP)	$35
* Netware 4.1 (5 Users)	$495
* Quad 4x CD-ROM(To-/ Mit)	$179
* 60Watt Multi-media speakers	$35
* 115Watt Multi-media speakers	$45
* Sound Blaster 16 IDE Card	$75
* AWE32 Creative Lab Card	$185
* 14.4 bps Fax/Modem	$55
* 14.4 bps Voice/Fax/Modem	$85
* 28.8 bps Fax/Modem	$125
* Diamond Stealth64 w/1MB	$135
* Diamond Stealth64 w/2MB	$185
* Diamond Stealth64 Video,2VRAM	$265

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Best Selling Network Parts

* 16 bit Ethernet (BNC,UTP,AUI)	$49
* VLB Ethernet (BNC,UTP,AUI)	$95
* PCI Ethernet (BNC,UTP,AUI)	$99
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* 8 Port UTP HUB Repeater(B/A)	$185
* 12 Port UTP HUB Repeater(B/A)	$265
* 16 Port UTP HUB Repeater(B/U/A)	$295
* 16 Port UTP HUB (AUI,BNC,SNMP	$410

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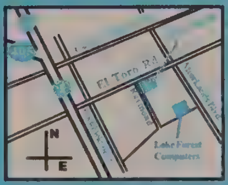

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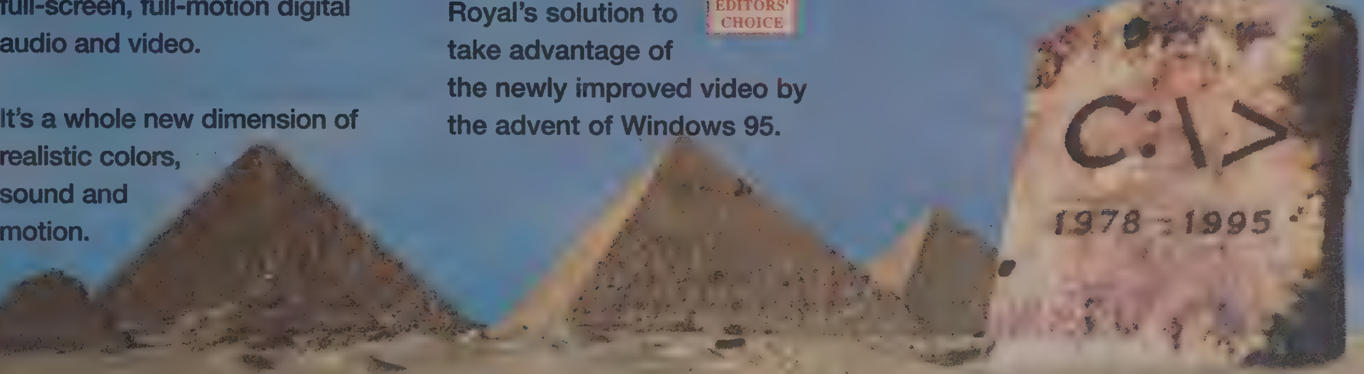
PC MAGAZINE EDITORS' CHOICE

#9 Imagine128, Royal's solution to take advantage of the newly improved video by the advent of Windows 95.

PC magazine says: "... [#9 Imagine128] combines ultra-fast 128-bit graphics accelerators, screaming refresh rates, and tremendous utilities (HawkEye) into potent packages aimed at the graphics professional." Imagine128 is the most powerful graphics engine available today.



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- ☞ **4X** CD-ROM drive 600KB/sec
- Sound Blaster Soundcard Compatible
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- CD Deluxe 4 Titles, Dual Speakers
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ALPHA Computer

Online Guide

Web Page Listings *continued...*

TELOS, The Electronic Library Of Science *http://www.telospub.com/* TELOS publishes scientific titles with electronic components: CD-ROMs, diskettes, or files via Internet. It's cool. [Exp. #140.]

Topanga Canyon Rotisserie League *http://bcf.usc.edu/~kbrennan/index.html* Follow the fantasy baseball league here, complete stats, transactions, plus hotlinks to numerous baseball sites. [Exp. #145.]

UNCAT: The Catalog Of UNCATaloged Titles *http://www.sapphire.com/UNCAT/* Brochures, books, catalogs, newsletters, videocassettes, and audio cassettes not generally available in a bookstore or library. [Exp. #143.]

USAMALL *http://www.usamall.com* Fun page with hot and hip info, adventure sports, and entertainment schedule for concerts in the Bay Area. [Exp. #140.]

Venice Beach, California *http://www.mediaonline.com/bizads/venicebeach.html* Celebrate Venice's 90th anniversary in this art community including fitness events in world-famous Muscle Beach. [Exp. #144.]

Videomaker's Camcorder & Desktop Video *http://www.videomaker.com* High-quality, up-to-date information on video production and distribution; working to democratize and enrich television. [Exp. #141.]

Virtual Vegas *http://www.virtualvegas.com* Virtual Vegas brings fun, entertainment, contests, prizes, and more. You can virtually gamble here—stay tuned! [Exp. #141.]

Virtual Vineyards *http://www.virtualvin.com* Learn about the delights of great wine, discover your wine tastes, buy carefully selected wines. [Exp. #141.]

Voyager Company *http://www.voyagerco.com* Laurie Anderson, the *Paris Review*, the Guerrilla Girls, monthly opinion feature; demos, simulations from Voyager products. [Exp. #142.]

Wave Action Surf Magazine *http://www.waveaction.com/mag* Surfing from around the globe featuring photos of some of the world's best new school surfers captured by industry photographers. [Exp. #144.]

Weddings Online *http://www.sensemedia.net/sprawl/weddings* A one-stop information resource making it possible to plan your wedding right from home. [Exp. #140.]

Welcome To WOL On The Web *http://www.cris.com/WOL* The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #140.]

WH Networks *http://www.whnet.com/wolfgang* Connecting Minds, data communications archive. [Exp. #140.]

World Conquest *http://dnai.com/~conquest* Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #140.]

World Square *http://www.w2.com* "Virtual mall" with companies doing business in music, art, publishing, food, finance, automobiles, heath, and medicine. [Exp. #142.]

Writer's Showcase *http://community.net/~necknox* Tells about the author and book on disk called *Fatal Image.* [Exp. #140.]

XROADS *http://xroads.wr.usgs.gov/Welcome.html* Links to US Geological Survey Web sites. A way to learn about earth science and the USGS. [Exp. #143.]

Z Times *http://www.lh.com/z* National Association of Broadcasters 95 show report, St. Stupid Day Parade in San Francisco, links to unusual sites. [Exp. #142.]

ZIPZAP Universe *http://zipzap.com* Home to the ZIPZAP Gallery, *Deep Style* Magazine, *ZIPZAP* e-zine, and the ZIPZAP Universe BBS. [Exp. #140.]

ORGANIZATIONS

American Bar Association *http://www.abanet.org* General facts and resources on the law, continuing legal education courses and requirements, ABA info. [Exp. #141.]

American Communications Association. *http://www.uark.edu/depts/comminfo/www/ACA.html* For those interested in communication research, communication law, freedom of information, free speech, First Amendment. [Exp. #141.]

American Sightseeing International *http://www.sightseeing.com/* ASI, a global association of tour companies, offers worldwide tourism information. Email: *info@sightseeing.com* . [Exp. #145.]

Art & Artist Network *http://voyager.via.net/netbiz/artist.html* International directory of artists, art galleries, and art-related services. [Exp. #141.]

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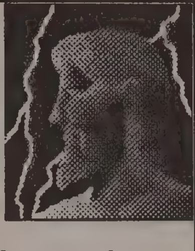

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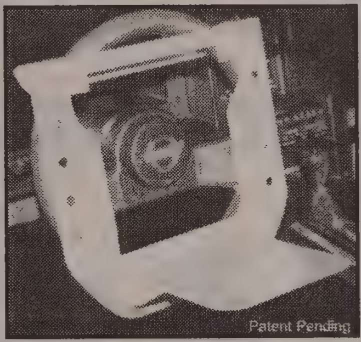

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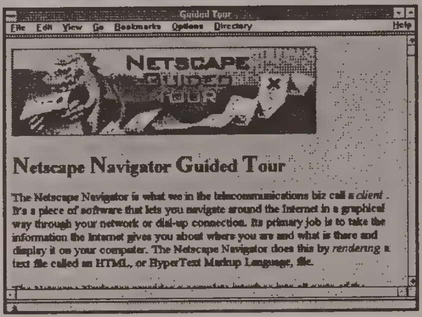
Guided Tour

Netscape Navigator Guided Tour

The Netscape Navigator is what we in the telecommunications biz call a *client*. It's a piece of software that lets you navigate around the Internet in a graphical way through your network or dial-up connection. Its primary job is to take the information the Internet gives you about where you are and what is there and display it on your computer. The Netscape Navigator does this by *rendering* a text file called an HTML, or HyperText Markup Language, file.

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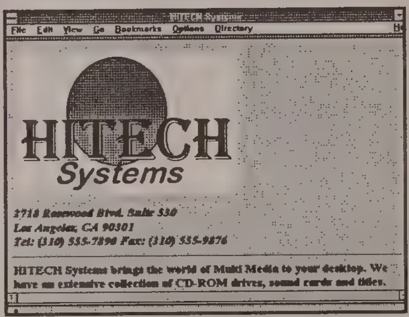
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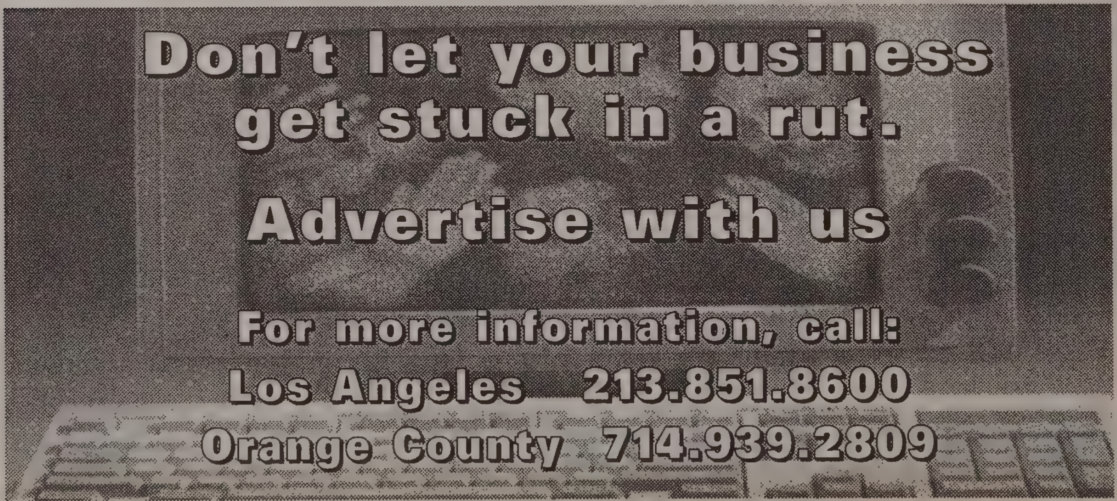
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Online Guide

Web Page Listings *continued...*

ASSE—Greater San Jose Chapter *http://www.best.com/~assegsjc* Information, links on environmental, safety, and health issues, and the American Society of Safety Engineers. [Exp. #145.]

Bay Area Volunteer Information Center *http://www.meer.net/users/taylor* Lists hundreds of volunteer opportunities with San Francisco Bay Area nonprofit organizations. [Exp. #145.]

Black Data Processing Associates *http://www-leland.stanford.edu/group/bgsa/bdpa/bdpa.html* National network of DP professionals, educators, students, and vendor reps. [Exp. #140.]

California Association Of Residential Care Homes *http://www.hooked.net/users/rallap/index.html* Nonprofit association of care providers, current list of vacancies in Santa Clara County, referrals. [Exp. #143.]

CERA Research *http://www.cera.com* Web site for embedded systems engineers and programmers, includes Electronic Engineer's Internet, 1995 report on engineers and programmers on the Net. [Exp. #145.]

Creative Learning Stroke Support Site On The Web *http://www.tpoint.net/creative/* Creative Learning publishes multimedia software to help rehabilitate language after a stroke or other neurological impairment. [Exp. #145.]

Cupid's Network, Inc. *http://www.cupidnet.com/cupid* Network of singles organizations, dating services, matchmakers, and personal ads. Many ads from women. [Exp. #145.]

De Anza College *http://www.deanza.fhda.edu/* De Anza College programs, services, community events, class schedules, and much more to explore! [Exp. #145.]

Greenbelt Alliance *http://www.greenbelt.org/gba* Everything about the Bay Area's greenbelt of open space: maps, outings, issues, factsheets. Fight urban sprawl! [Exp. #143.]

Greenpeace Climate Homepage *http://www.greenpeace.org/* Berlin Climate Summit info, FAQ on climate change, links to other climate info on the Net, more. [Exp. #141.]

History Computerization Project *http://www.history.la.ca.us/history* This project includes: request forms for a free history database tutorial, photos on display, and directories of historical resources. [Exp. #144.]

Impact Online *http://www.internex.net/impact* Interactive access to nonprofit organizations, topical issues, and information on a range of social issues. [Exp. #142.]

International Netsuke Kenkyukai Society *http://www.hooked.net:80/users/yukiyama/* Information on Netsuke Kenkyukai Society and collecting netsuke (Japanese antique toggles). [Exp. #141.]

International Paperweight Society *http://www.armory.com/~larry/ips.html* A nonprofit organization dedicated to furthering the awareness of fine glass paperweights. A mecca of information. [Exp. #142.]

Japan Summer Program *http://www.kaiwan.com/~stussy/japan95/japan11.html* Information about studying photography or the Japanese language in Japan during the summer of 1995. [Exp. #142.]

Karma Kagyu Buddhist Cyber Center *http://144.92.74.130* Introducing Karma Kagyu lineage of Tibetan Buddhism, main teachers, teaching and meditation schedules, presenting quarterly magazine. [Exp. #142.]

LatinoWeb *http://www.catalog.com/favision/latnoweb.htm* Provides a platform for Latino organizations to make their information available to the Internet. [Exp. #141.]

Napa Valley PC Users Group *http://community.net/~stevefc/index.html* The home page for the Napa

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- 16MB RAM
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- PCI on-board eIDE controller
- High speed 16550 UART I/O
- Diamond Stealth Video 2MB DRAM VGA Card
- 1.44 Floppy Disk Drive
- Medium Tower Case w/250W power supply
- AT&T 28.8k bps Internal Fax/Modem
- Sound Blaster 4x discovery package 24 Titles
- MPEG Decoder Card
- 101 Enhanced Keyboard
- 17" MAG DX17F .26mm dpi

P-75MHz	$2799
P-90MHz	$2899
P-100MHz	*$2989*
P-120MHz	$3199
P-130MHz	$3399

PENTIUM BASIC SYSTEM

- Intel Pentium CPU
- Intel Triton PCIset™ Motherboard
- 8MB RAM
- 540MB Hard drive
- PCI on-board eIDE controller
- High speed 16550 UART I/O
- Trident PCI 1MB VGA Card
- 1.44 Floppy Disk Drive
- Medium Tower Case w/250W power supply
- 15" SVGA .28mm dpi Monitor
- 101 Enhanced Keyboard

Pentium 75MHz	$1319
Pentium 90MHz	$1419
Pentium 100MHz	*$1499*
Pentium 120MHz	$1729
Pentium 133MHz	$1929

486 MULTIMEDIA SYSTEM

- 486 VLB System
- 8MB RAM
- 850MB eIDE Hard drive
- VLB eIDE I/O controller
- Cirrus Logic 5428 1MB (up to 2MB) VGA Card
- 1.44 Floppy Disk Drive
- Mini Tower Case w/230W power supply
- 15" SVGA .28mm dpi
- 101 Enhanced Keyboard
- Sound Blaster 4x discovery package 20 Titles
- 14.4k bps Internal Fax/Modem

AMD 486DX2/66MHz	$1459
AMD 486DX2/80MHz	$1479
AMD 486DX4/100MHz	*$1499*
Intel 486DX2/66MHz	$1489
Intel 486DX4/100MHz	$1559

486 BASIC SYSTEM

- 486 VLB Motherboard w/72pin combo
- 4MB RAM
- 560MB IDE Hard drive
- VLB eIDE I/O controller
- Cirrus Logic 5428 1MB (up to 2MB) VGA Card
- 1.44 Floppy Disk Drive
- Mini Tower Case w/230W power supply
- 101 Enhanced Keyboard
- 14" SVGA .28mm N.I. Monitor

Cyrix 486DX2/66MHz	*$750*
AMD 486DX2/66MHz	$809
AMD 486DX2/80MHz	$829
AMD 486DX4/100MHz	$869
Intel 486DX2/66MHz	$829
Intel 486DX4/100MHz	$1029

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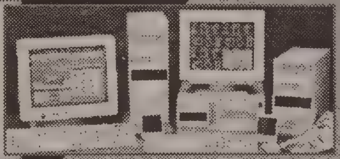

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Vesa Local Bus Super IDE &	19
PCI IDE adapter	25
PCI IDE w/IO (1655 UR)	49
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AT IDE w/16550 Hi-Speed IO	29
VLB IDE w/16550 Hi-Speed IO	43
VLB SCSI w/16550 Hi-Speed IO	119
Adaptec AHA-1522K SCSI floppy/hard adapter card	89
Adaptec AHA-1542CF SCSI bus master adapter card	189
Adaptec AHA-2742TK EISA SCSI bus master host adapter card	339
Adaptec AHA-2842K VLB SCSI bus master host adapter card	199
Adaptec AHA-2940 PCI wide SCSI-3 host adapter card	249
Adaptec AHA-2940 PCI fast SCSI-2 host adapter card	207

Please call for pricing on GSI, Promise, Bus Logic, Boca, DTC, Ultrastor, Future Domain, Always, Tekram and Q Logic controllers.

CD-ROM DRIVES

Creative Labs Value CD 4x Internal 11 Titles	$259
Creative Labs Discovery 4x Internal 20 Titles	319
Creative Labs Home 4x Internal 24 Titles	389
Acer 2x Internal IDE	98
Mitsumi 4x Internal IDE	175
NEC 510 3x Internal SCSI	195
NEC 511 4x Internal SCSI	319
Panasonic 562B Internal 2x	117
Plextor 4x Internal SCSI OEM	299
Plextor 6x Internal SCSI OEM	625
Sanyo CDR-94A 2x Internal	105
Sony 55E 2x Internal IDE	109
Toshiba 3502 4x Internal IDE	185
Toshiba 3602 4.4x Internal SCSI	349
Teac 55A 4x Internal IDE	179
4 CD Titles	12
14 CD Titles	37
16 CD Titles	42

Please call for pricing on Texel, Philip, Pioneer and any other unlisted models.

CHASSIS (CASES)

Pac AC-21 mini tower case w/230w power supply	$37
Pac CS-11 desktop case w/200w power suppfy	43
Pac CS-21 mini tower case w/230w power supply	43
Pac CS-31 mid tower case w/230w power supply	59
Pac CS-41 full tower case w/230w power supply	79

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Safonic 1.44mb (3.5")	29
Teac 1.2mb (5.25")	44
Teac 1.44mb (3.5")	34
Teac dual 1.2mb (5.25")/1.44mb (3.5")	85

HARD DISK DRIVES

Conner CFS 540A-540mb IDE	$169
Conner CFA 850A-850mb IDE	209
Conner CFA 1275A-1.2GB IDE	259
Maxtor MX-7540A-540mb IDE	169
Maxtor MX-7850A-850mb IDE	209
Maxtor MXT-71260A-1.2GB IDE	259
Quantum 420mb IDE	159
Quantum 540mb IDE	199
Quantum 540mb SCSI	229
Quantum 730mb IDE	239
Quantum 1080S-1.08GB SCSI	519
Quantum 2GB SCSI	865
Samsung 420mb IDE	155
Samsung 560mb IDE	165
Samsung 850MB	209
Samsung 1.2MB	269
Western Digital AC2540-540mb IDE	189
Western Digital AC2700-730mb IDE	209
Western Digital AC2850-850mb IDE	239
Western Digital AC31000-1GB IDE	279
Western Digital AC31200-1.2GB IDE	289

Please call for pricing on Digital(DEC), Micropolis, Mini-Stor and any other unlisted models.

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Focus 2001 w/hard dust cover	$32
Focus 6000 (soft click)	23
Focus 7000 w/trackball	35
Focus 8000 (calculator, soft click)	36
Focus 9000 (programmable calculator)	46
Fujitsu 4720 (click)	39
Microsoft Natural Hi-Tech	79
Acekey 101	15

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Simm 1x9 (1mb) 30pin	43
Simm 4x3 (4mb) 30pin	135
Simm 1x32 (4mb) 72pin	150
Simm 2x32 (8mb) 72pin	289
Simm 4x32 (16mb) 72pin	489
Simm 8x36 (32mb) 72pin	999
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MICROPROCESSORS (CPU)

Intel Pentium 100MHz	$489
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Intel Pentium 75MHz	299
Intel 486DX4-100MHz	219
AMD 486DX4-100MHz	129
AMD 486DX2-80MHz 3V	119
AMD 486DX2-66MHz	109
Intel 486DX2-66MHz	149
Pentium CPU fan	13
486 CPU fan	8

MODEMS

Zoltrix 14.4 Internal Fax/Modem	$49
Zoltrix 14.4 Internal Fax/Modem Voice	65
Zoltrix 28.8 Internal Fax/Modem	115
Smartlink 28.8 Internal Fax/Modem	119
Smartlink 28.8 Internal Fax/Modem Voice	259
US Robotics Sportster SI 14.4 Internal Fax/Modem	69
US Robotics Sportster 14.4 Internal Fax/Modem	89
US Robotics Sportster 14.4 External Fax/Modem	114
US Robotics Sportster 28.8 Internal Fax/Modem	199
US Robotics Sportster 28.8 External Fax/Modem	219

Please call for pricing on Boca, Hayes, Supra and Zoom modems.

MONITORS

14" Aurora .28 N-I monitor	$209
15" Aurora .28 N-I monitor	329
Arcus 14" mono	80
Arcus 14" mono SVGA	98
MAG DX-15F 15" SVGA N-I (Green)D	349
MAG DX-17F 17" SVGA N-I (Green)D	619
MAG MX	CALL
Sony 15SF Multiscan 15" SVGA N-I (Green)D	465
Sony 17SF Multiscan 17" SVGA N-I (Green)D	885
Viewsonic 15G 15" SVGA N-I (Green)D	395
Viewsonic 15 15" SVGA N-I (Green)D	419
Viewsonic 17G 17" SVGA N-I (Green)D	704
Viewsonic 17 17" SVGA N-I (Green)D	815
Viewsonic 20G 20" SVGA N-I (Green)D	1229
Viewsonic 21PS 21" SVGA N-I (Green)D	1615

Please call for prices on NEC, Sony, Nanao, Nokia M7 and any other unlisted models.

SYSTEM BOARDS

Intel Triton PCI MB w/EIDE & I/O	$179
486 PC Chip w/256K Cache	89
IBM 486SLC-66MHz w/Math Coprocessor	144
486SLC-33MHz UMC Chip	59
486 PCI DX M/B w/256K Cache	109
Pentium Forex chip w/4 PCI, 4 ISA, 256K Cache	139

Please call for pricing on AMI, Asus, and Micronics motherboards.

TAPE BACKUPS

Colorado DJ-20 internal 250mb	$129
Colorado DJ-30 internal 350mb	139
Colorado DJ-25 internal 700mb	179
Colorado JT-20 external 250 parallel	259
Colorado JT-25 external 700mb	339
Colorado JT-30 external 350 parallel	279
Colorado AB-11 external adapter kit	38
Colorado KE-09 external drive kit	75
Colorado FC-10 500kb/s -1mb/s adapter kit	80
Colorado 1GB and 2GB internal and external	CALL
Conner Tapestor 250 internal	135
Conner Tapestor 420 internal	179
Conner Tapestor 850 internal	259
3M Travan Cartridge	29

Please call for pricing on DEC, Etabyte, I-Omega, Summite, Tecmar and Wangtek tape backup systems.

VIDEO CARDS

Trident 9000 VGA w/512K	$35
Trident 8900 SVGA w/1mb	58
Trident 9440 VLB or PCI SVGA w/1mb	69
Cirrus Logic 5424 VLB SVGA w/1mb	69
Diamond Stealth 64 VLB w/2mb	175
Diamond Stealth 64 PCI w/2mb	175
Diamond Viper SE VLB w/2mb VRAM	289
Diamond Viper SE PCI w/2mb VRAM	279
Diamond Stealth 64 VLB w/2mb VRAM (expandable to 4mb)	275
Diamond Stealth 64 PCI w/2mb VRAM (expandable to 4mb)	279
ATI Mach 64 VLB w/2mb DRAM	179
ATI Mach 64 PCI w/2mb DRAM	177
ATI Mach 64 VLB w/2mb VRAM	269
ATI Mach 64 PCI w/2mb VRAM	269
ATI Mach 64 VLB w/4mb VRAM	465
ATI Mach 64 PCI w/4mb VRAM	449

Please call for prices on Matrox, Number Nine, Orchid, Hercules and any other unlisted models.

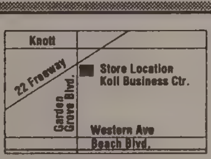
PRINTERS

HP 540	$279
HP 560C	449
HP 4L	519
Epson Stylus Color	499

Please Call For Pricing On Epson, Okidata, Canon & Panasonic Printers

MOUSE

Z-Nix Mouse	$8
Microsoft Mouse	29



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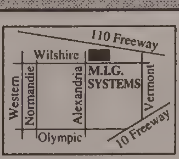

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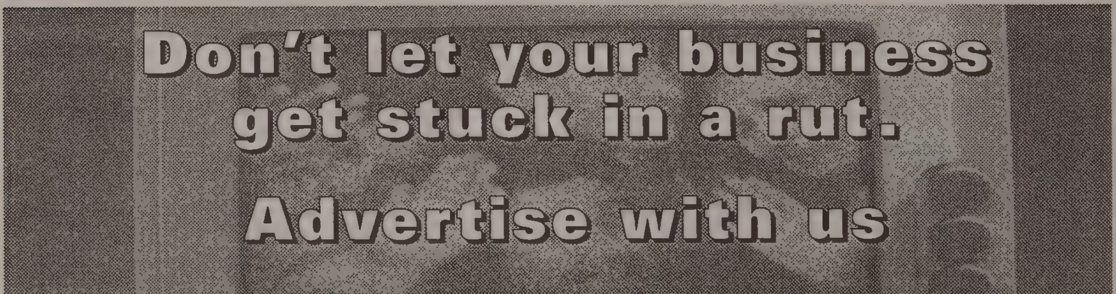

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Web Page Listings *continued...*

Valley PC Users Group. [Exp. #141.]

National Air And Space Museum *http://www.nasm.edu* Research resources, learning materials, info; event calendar; museum tour; Center for Earth and Planetary Studies; more. [Exp. #145.]

OCSUG Home Page *http://halide.acs.uci.edu/* Home page of the Orange County Sun User Group. [Exp. #143.]

Pacific Lutheran University *http://www.cs.plu.edu/tour/tour.html* A virtual tour of Pacific Lutheran University's campus is as close as your computer screen. [Exp. #145.]

Podiatric Medicine And Surgery Network *http://www.aimnet.com/~rwunder/podmet.htm* Information for studying and practicing Podiatrists, geared toward The California College of Podiatric Medicine. [Exp. #145.]

SK Writers Home Page *http://www.skwriters.com* A placement agency specializing in technical pubs, marcom, and training professionals. [Exp. #141.]

Spectrum Virtual University *http://www.pacificnet.net/~spectrum/campus* Progressive "virtual university" offers free classes via the Internet on subjects from mainstream to alternative. [Exp. #145.]

Stanford University Bechtel International Center *http://fugi.Stanford.edu/icenter/icenter.html* Programs and services offered by I-Center for Int'l. students/scholars, families, and students who want to travel abroad. [Exp. #141.]

U.S. Navy Recruiting Command *http://www.navyjobs.com* Browse through selected topics, including Jobs in the Fleet, Medical Jobs, Worldwide Travel, and Benefits. [Exp. #145.]

West Coast Online *http://www.wco.com/* West Coast Online's home page. [Exp. #145.]

Windows 95 Annoyances *http://ocf.berkeley.edu/~daaron/win95ann.html* A forum for Windows 95 users with helpful tips to overcome some of the minor annoying limitations and design flaws. [Exp. #145.]

PERSONAL HOME PAGES

AYL Home Page *http://www.aimnet.com/~ayl/homey.htm* A home page full of exciting links to unique places and great invest opportunities. [Exp. #145.]

Bob Bickford *http://www.well.com/Community/rab/index.html* The still-evolving home page of a Professional Wild-Eyes Visionary. [Exp. #145.]

Cindy's Home Page *http://www.pacificnet.net/~roncin* [Exp. #145.]

Douglas's Home Page *http://www.primenet.com/~douglask/* If you are interested in probation or X-Ray technology leave a note here. Links to many legal sources. [Exp. #145.]

Healthy Flying *http://galaxy.einet.net:80/galaxy/Leisure-and-Recreation/Travel/diana-fairechild/healthy.html* Info about jet lag, healthy flying, and other air travel-related issues. [Exp. #145.]

Home Page Of Robert Capps *http://www.ccnet.com/~rc* An ever-changing collection of cool links and information on setting up your own home page. [Exp. #145.]

Hypnotherapy By Rosa Kitchen *http://www.hetdl.com/~kitchen* Calm, calmer, calmest. Develop a solid, unshakable personal power. Heal from within through hypnosis. [Exp. #143.]

Jeff's Homepage—The Quam *http://www.emf.net/~quam* Jeff's Homepage and link to the Pirate Squid Club. Lots of useless nonsense. [Exp. #141.]

Jow's trueSpace Home Page *http://csual.cs.ucla.edu/truespace* Provides images, utilities, and links of interest to the Caligari trueSpace user. [Exp. #140.]

Joyous Guard *http://www.deltanet.com/users/roy/ho*

continued on page 195

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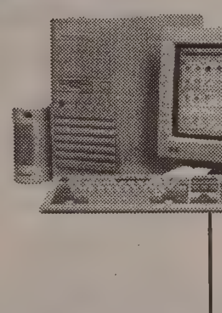

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SVGA 14" (.28) NON-INTERLACED	219
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FAX/MODEM 28.8 INT.	129

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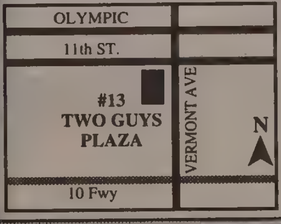

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486DX2-50Mhz	$ 260
486DX2-66Mhz	$ 275
486DX2-80Mhz	$ 295
486DX4-100Mhz	$ 315
Pentium Triton 75Mhz	$ 430
Pentium Triton 90Mhz	$ 535
Pentium Triton 100Mhz	$ 555
Pentium Triton 120Mhz	$ 725

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14.4 Int. Fax Modem	$ 52
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14.4 Ext. Voice Fax Modem	$ 75
28.8 Int. Fax Modem	$125
28.8 Int. V.34 Fax Modem	$135
28.8 Ext. V.34 fax Modem	$155

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Sound Blaster MCD 16	$ 80
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Sound Blaster Comp. 16	$ 60
Acer Sound Card	$ 50
Media Vision 16	$ 70
Sound Blaster AWE 32	$ 245

Key Board

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Focus 2001 Keyboard	$ 32
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Microsoft Natural	$ 89
Key Tronics Keyboard	$ 38

Display Card

MGP Card	$ 15
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Trident 8900D 1MB ISA	$ 55
Trident 9440 1MB VLB	$ 75
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- 340MB HDD
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- 9.5" Color DSTN Screen
- 540MB HDD
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- SVGA W/1MB RAM
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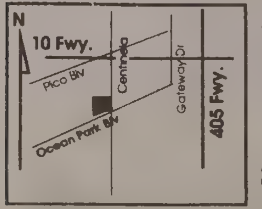

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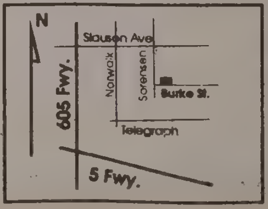

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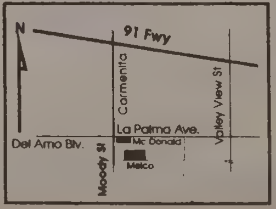

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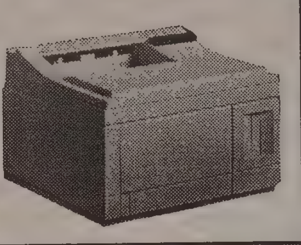

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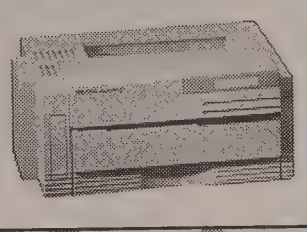

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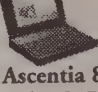

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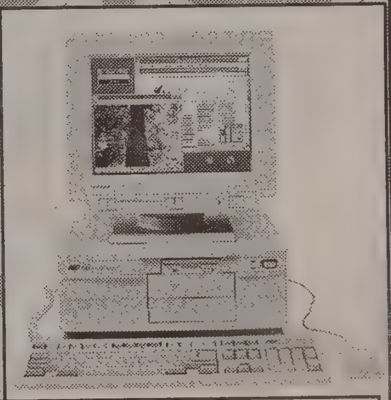

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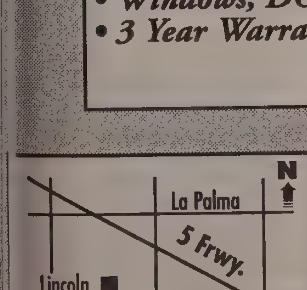

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1.44 MB Floppy Drive
PCI Super IDE I/O (1:1)
2 Serial / 1 Parallel
1 Game port
1 MB PCI SVGA Card
14" SVGA Monitor
101 enhanced Keyboard
Lifetime Labor Warranty
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Stereo Speakers
1 MB VESA SVGA Card
14" SVGA Monitor
101 enhanced Keyboard
Lifetime Labor Warranty
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T2150CDT	486DX4-75	8.4" Color Act.	8/20	500	3650
T2155CDS	486DX4-75	9.5" Color D/S	4/20	500	2700
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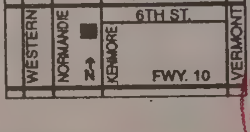

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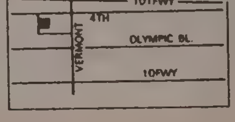

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- 1.44MB Floppy Drive
- 101 Key Keyboard
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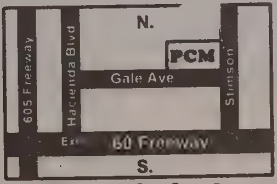

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1 GB Wide SCSI-3 Hard Disk
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Maxtor MX-7540A - 540mb IDE	$167.00
Maxtor MX-7850A - 850mb IDE	$199.00
Maxtor MXT-71260A - 1.2GB IDE	$269.00
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Cirrus Logic 5434 PCI 1MB	$89.00
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S3 864 PCI 1MB	$92.00
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** (D) = DRAM (V) = VRAM*

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NEC 511 4x internal SCSI	$279.00
NEC Omni 4x internal SCSI w/CD titles	$225.00
NEC 512 6x internal SCSI	$389.00
NEC 6x External SCSI	$485.00
Panasonic 562B internal 2x	$69.00
Panasonic 572 internal 2x IDE	$79.00
Panasonic 503 2x internal SCSI	$59.00
Plextor 6x internal SCSI OEM	$499.00
Toshiba 3502 4x internal IDE	$179.00
Toshiba 5301 4x internal SCSI	$269.00
Toshiba 3601 4.4x internal SCSI	$289.00
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Creative Labs SCSI-2 ASP	$195.00
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Creative Labs Awe 32 ASP and wave MCD	$255.00
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Colorado AB-11 external adapter kit	$38.00
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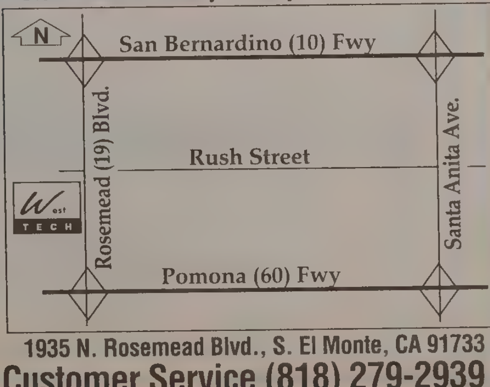

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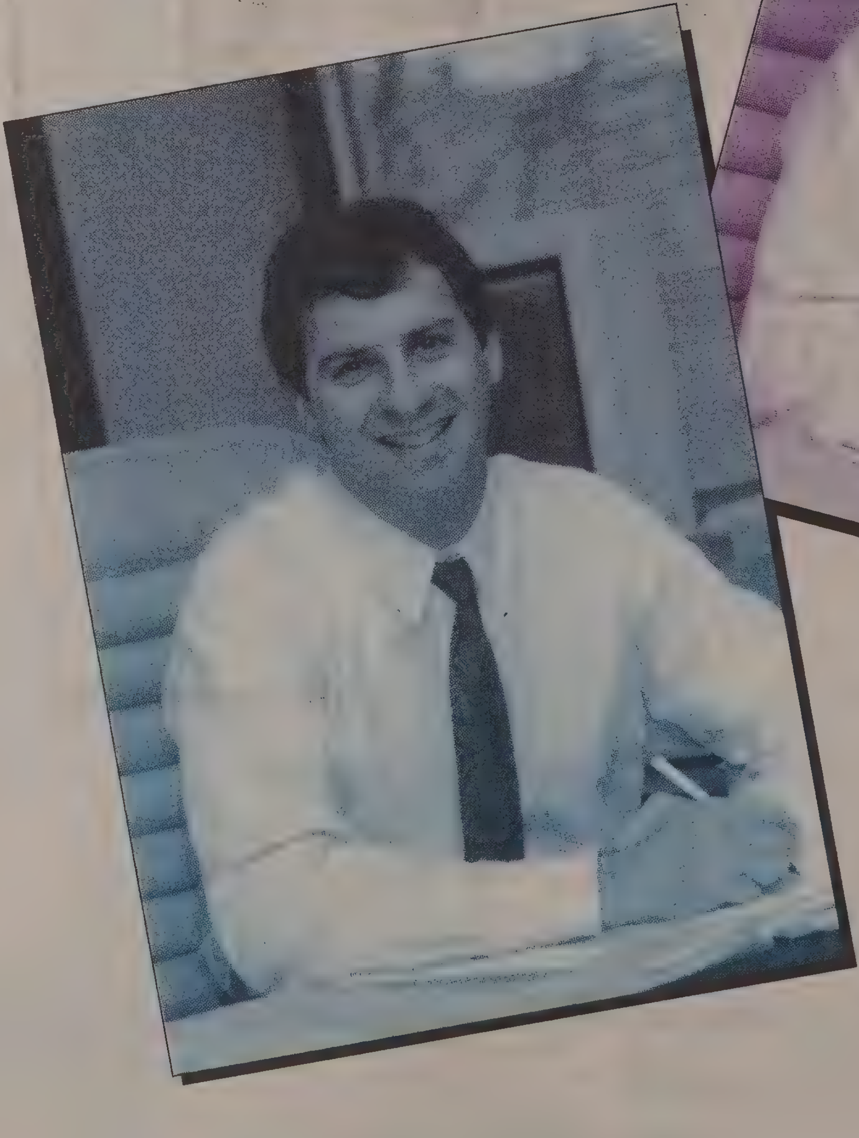
WIRELESS

A Visit With Motorola's Randy Battat

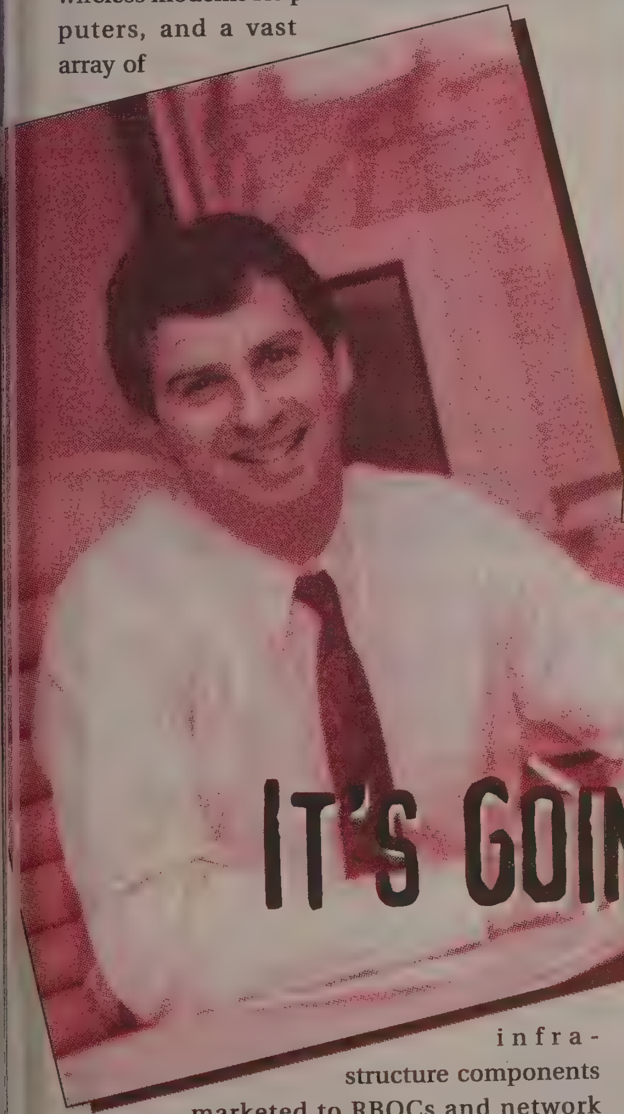
BY MARY EISENHART



"ALL THIS NOTION OF ORGANIZATIONAL STRUCTURE THAT WAS RELEVANT TWENTY YEARS AGO IS NO LONGER RELEVANT, AND THAT'S SCARING THE BEJESUS OUT OF PEOPLE."

—Randy Battat

IT'S GOING TO CHANGE YOUR LIFE



Wireless data technology has been converging with personal computers for some time now (see George Gilder interview, "Scoping Out The Data Highway", Issue 125), as mobile workers look for ever-better ways to take their jobs wherever they go. And few companies are more involved with this convergence than Motorola, a longtime pioneer and innovator in wireless communications.

Apple veteran Randy Battat, now corporate vice president and general manager of Motorola's Wireless Data Group, laughingly describes his division's products as "floor waxes and dessert topping!"—i.e., just about everything pertaining to the convergence of computers and wireless. It encompasses PDAs like the recently shipped Envoy and Marco devices, wireless modems for personal computers, and a vast array of infrastructure components marketed to RBOCs and network operators.

"Today, and historically," Battat says, the company's wireless data products have served "a lot of vertical markets and specialized applications. For example, if you ever get into an Avis bus, when they drive you to your car they punch your name into the terminal and it tells you where your car is. We make that terminal, and it works off the ARDIS network. Or your UPS truck driver comes in and you sign the form—we do that terminal."

However, if Battat is correct in his assessment, all this is about to become more popular and less specialized. (Motorola Wireless Data Group, 1-800-894-7353.)

YOU'VE SAID THAT YOU SEE THE WIRELESS INDUSTRY BEING WHERE THE PC INDUSTRY WAS FIFTEEN YEARS AGO. COULD YOU ELABORATE ON THAT?

Sure. A nice example might be the whole world of local area networks.

Today we take networks for granted. Groupware—Lotus Notes is a hot-selling application, in more ways than one! And all that assumes the existence of a local area network, that people are communicating. But a long time ago, PCs were all standalone.

For many years people were saying, "We have this neat local area network technology, but next year's going to be the year of the LAN, next year's going to be the year of the LAN," and then all of a sudden we woke up one day and Cisco was a billion-dollar company, and Wellfleet and Bay Networks. There's a giant industry around wire-line local area network communications.

Wireless data communications are kind of in that stage. A few years from now we'll start to take it for granted. Although today it's one of those things that everybody expects to be using, it's still only used by people who see the direct value in it at this time.

FROM TALKING TO PEOPLE IN THE WIRELESS PDA MARKET, IT SEEMS AS IF THIS TYPE OF TECHNOLOGY REQUIRES A FAR MORE COMPLEX INFRASTRUCTURE THAN THE PC DID IN ITS INFANCY.

To me, it's another aspect of likening this to the PC industry fifteen years ago. In the early '80s, PCs were certainly not taken for granted at all. There was an existing base of mainframes and minicomputers which were quite well entrenched, and when you looked at this new thing called the PC, people said, "Why do I need that? I can do anything you could do on this PC off a mainframe with a terminal, at a much lower cost. I already have a lot of the applications that you'd need. What do I need to buy this $2–3000 standalone thing for?"

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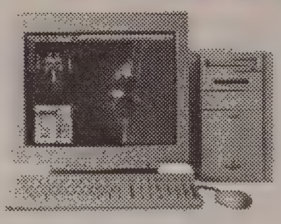

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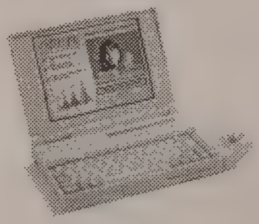

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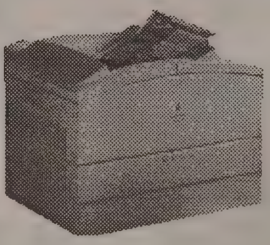
PRINTERS



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IBM

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There wasn't much software for it; there wasn't a huge software industry; you had to go to your local Homebrew Computer Club to figure out how to piece the damn things together. The places that sold this were techie hobby shops that sold ham radios. It was a very different state from the PC industry that we know and love today.

Yet the PC was a major fundamental shift in many, many ways away from its minicomputer and mainframe predecessors. Why?

Most important, there was a different social context than there was with a minicomputer and a mainframe. With a PC, the whole notion of a personal computer was that you were in control. You could decide when to turn it on and off, and what to put in it, and how to use it, and so forth. As opposed to having somebody who lived in a glass house tell you when you were allowed to use it. A lot of people had a hard time understanding what that would mean later on! [*laughs*]

The whole notion of platforms wasn't there before PCs. All of a sudden the economic structure of the computer industry totally changed. Retail distribution emerged with PCs; you sold mainframes and minicomputers with a direct sales force. The notion of software development, hundreds of thousands of shrinkwrapped software applications on the shelf, was only associated with the PC; with minis and mainframes, you wrote software yourself, or you bought it from a specialized integrator.

There were a whole bunch of very important consequences that led the PC to be completely, fundamentally different in many ways from its mini and mainframe predecessors.

The flip side of that is that it took time for all of those differences to be assimilated into the world. Many new technologies take a long time to assimilate themselves into the world. It's not just osmosis, of course; it's people using these things, learning more about them, and what they can do. As a result, people who supply these things change them, and reduce prices, and add features, adapting them to the market needs.

The whole environment evolves. It really is an evolutionary process, and all of a sudden you wake up and PC companies are $10 billion companies.

I'd assert that this world of PDAs or wireless communicators or whatever you want to call them offers the same kind of fundamental shift. The flip side of that is that the consequences of that fundamental shift are going to be similar to PCs—they'll probably be far-reaching in nature, but they'll also take a long time to occur, with lots of evolutionary iterations along the way.

I think we can see the beginnings of that. We know that people want something that's a little bit more intimate, that might be more convenient to carry with themselves everywhere they go, that they can use to organize their lives and communicate. People declare these as needs that they want fulfilled.

And yet PCs are better at calculation, memo-writing, presentation creation, things like that. We also know that PCs don't scale; just as minis didn't scale down to the PC level, PCs aren't going to scale down to this little tiny thing that you carry around with you everywhere you go. For many reasons—technically, economically, socially, etc.—you can't take this thing that has a 640 x 480 pixel screen, and hundreds of megabytes of hard disk space, and huge megaprocessors, and megabytes and megabytes of RAM, and so forth, and expect it to scale down to something that fits in your shirt pocket and have any resemblance to the original PC. If you attempted to scale it, it wouldn't be a PC anymore.

We know that there's an innate desire for something different, at least I assert that. We also know that PCs don't scale—lots of people have tried it—and there is room for something new. There is also the potential for far-reaching consequences, and other elements of the whole macroeconomic equation associated with these nice little gadgets. Because they're so personal, you use them differently than you use PCs.

When you use a PC, you sit down at a "work station." You get some work done. There's a beginning, a middle, and an end, and then you're done with it until you come back to your work station again.

With these little PDAs, you turn them on, accomplish a little piece of a task, and then turn them off. Write a note to your colleague, send it, turn it off. Glance at your calendar, see where you have to be next. You glance at your Rolodex and look up a phone number. You make a note to yourself and file it away. So you use it in a very different way.

I would expect that just as the PC had very different social implications versus the minicomputer, the wireless communicator will probably have different social implications.

There probably are different implications about the structure of software. Today there's shrinkwrapped applications that have the kitchen sink built into them. You can't produce a new word processor unless it has the ability to flow text around arbitrarily shaped graphical objects; you have to have lots of different fonts; you have to have an outline processor, etc., etc., etc.

PDA software is based on high-level scripting languages, which means smaller applications focused on more targeted tasks. I would assert that that means the threshold for application development will decrease. More people will be able to create applications, and you may look at applications much as you look at novels in a bookstore. You choose which one you want, and they're used for highly targeted tasks. You don't buy one like a word processor and use it forever in a very general-purpose way; you might buy a PDA application and use it in a special way.

Also, the economic equation is different. These things are often associated with communications services, either wire-line or wireless. That changes the economic equation in a huge way, because there's a subscription—you buy something, and there's a subscription as well. How cash flows across the application writer, the device manufacturer, the service provider, creates interesting opportunities.

THIS MIGHT BE KIND OF SILLY, BUT I KNOW AN AWFUL LOT OF PEOPLE WHO REFUSE TO GET CAR PHONES BECAUSE THEY DON'T WANT THEIR CAR TO BE THEIR OFFICE. AS YOU GET THESE LITTLE UBIQUITOUS PERSONAL COMPUTING DEVICES, AND THEY'RE TIED TO YOUR BUSINESS, IT'S LIKE YOU CAN NEVER TURN YOUR BUSINESS OFF, WHICH A LOT OF US DON'T NECESSARILY WANT. THIS IS SORT OF A SOCIAL THING—YOU'RE ALWAYS REACHABLE, SO ARE YOU ALWAYS YOUR BUSINESS SELF?

I don't think it's a minor point, I think it's a fundamental point. Let me offer just a few thoughts to put that in context.

This notion that you describe of "Jeez, work won't stop! It's always invading my life!" is an extremely relevant point. But I think we have to stop for a second and say, "Why is this occurring?"

I'll try some ideas on you for size.

People used to talk about the industrial society versus the agrarian society, where in an agrarian economy land was valuable, and in an industrial economy capital was valuable. People talk about the current times, that what we're going into is a knowledge-based economy, where knowledge is more valuable than capital per se.

The economy we came from was very compartmentalized. The whole notion of mass production—you stand on the assembly line and do your thing—was an industrial-economy kind of notion. The org chart—here's where you fit into the organization. The job description—here's what your job is. The notion of 9 to 5—here's the hours that you work. All this very structured view of work, from manufacturing to how organizations work, to job descriptions etc., were all notions of the industrial economy.

The world that we're moving into—oh, by the way—smashes all those barriers to pieces.

I suspect I'm calling you at your home now, right?

RIGHT, EXACTLY.

So you work a little bit at home, and you work a little bit at the office. For almost everybody these days, the notion of home and office is starting to blur. Business travel is up substantially. It used to be a regal affair—you hopped on a plane, it was exotic—

AND NOW IT'S LIKE GETTING ON THE GREYHOUND!

It's sort of a pain in the butt. Business travelers forget this statistic, but it's up something like tenfold over the last ten to twenty years. And how we're working is very, very different.

The notion of a job description is totally different. You don't tell people "This is your job, and you stay in this box, and you work in this place, and we're going to take care of you forever," and you define that path and that's the way things are. No.

Today you're expected to cross functional boundaries. You're expected to go beyond whatever it is that some structured job description defines your job as. People who work are people who can integrate lots of things across functions of a business—see customers, see technology, see financial aspects, and so forth. Those are the people who are rewarded. The people who are recognized are also the people who take it upon themselves to manage their own growth and development, as opposed to the paternalistic organization which takes care of them and plans their lives for them.

So all this notion of structure that was relevant twenty years ago is no longer relevant, and that's scaring the bejesus out of people.

The other consequence of that is that with all this blurring of functions, people are expected to do things and to act on the behalf of the business wherever the business takes them.

Technology can certainly be used as a tool to enable people to follow wherever the business might take them, but it can also be used as a way to put people in control of how they want to conduct their own business. You can look at the pager as a horrible leash, tying you down to your office; you can also look at it as a liberator, as a way for you to go about wherever, to increase your freedom, knowing that if something important occurs, you can get in touch.

The notion of wireless communications, particularly the store-and-forward nature of it, is that with wireless email, you can get things done wherever you are. You can also turn it off, and know that if something important comes in, it'll stay there, so the next time you want to check, you can see what has occurred. Technology, I suspect, is allowing you to file a story from home instead of traveling into the office to do so.

This point that you mention is, I think, the fundamental point about the benefits of wireless technology and these little wireless communicators we're talking about. Yes, the society and macroeconomic climate that we're living in are going to demand more of us, to take us wherever the business takes us; but at the same time the society puts pressure on us, the technology allows us to put ourselves back in control of how we want to work and behave.

DO YOU SEE THE SAME PEOPLE USING BOTH DATA MODEMS AND PDAS?

On the one hand, there's a huge world of PCs, and we want to bring the benefits of wireless communications to that. We'll probably see more business of wireless communications on garden-variety notebook PCs in the next few years than we'll see in this brave new world of wireless communicators. One is an extension off an existing application; the other is a totally new industry.

That said, in the long haul, some people may have both kinds of devices. Some may have one or the other. I think it's going to depend on individuals' preferences. I suspect that certain gadget freaks like myself may have a little bit of both, because they will end up serving different needs.

The PC on your desktop is good when you want to look at a screenful of information; if I'm going to go on a long plane ride I'll probably grab my notebook PC and work on a presentation and so forth. But day to day when I'm going about my business, I'll want to flip the wireless communicator in my coat pocket, and have my calendar, my schedule, and the ability to communicate wherever I go.

I really see them being used in different ways. The challenge is to be able to tie them together, dump your calendar off your PC onto your PDA, and have it always have an updated version, and have the two synchronized. Have one email box across all of them. In the short term it's probably true that people who take on the PDAs are people who are comfortable with technology, people who view themselves as getting an advantage over their competition if you will, from having the latest technology. As a result they're probably also the first on their block to have PCs.

RIGHT NOW THE HOME OFFICE IS A BIG DEAL—DO YOU SEE THE DAY WHEN PEOPLE TRANSCEND THE HOME OFFICE ENTIRELY AND JUST HAVE A VIRTUAL OFFICE THAT GOES WITH THEM WHEREVER THEY ARE?

I'm sure some people will want to work that way. I suspect that usage of these things is going to be driven more by working patterns and habits, and ergonomics associated with the devices.

I suspect that for most there will be a time when you want to sit at a desk and look at a large screenful of information and read some papers and so forth, so the notion of having a desktop probably will be important.

There will probably be some segment of the population that likes to live and work out of their car, but I suspect that that would be the minority. There are certain creature comforts in being able to sit back in a nice big chair and relax, bring in the messages of the day, surf the net, and so forth. I don't see the PDAs being the universal device, assuming all those other activities. There will certainly be a need for all these other devices, because they'll be better at certain things.

On the other hand, sending short messages from one person to the other is a lot more convenient to do off a PDA that you're keeping in your shirt pocket than running back to your desk and answering a short "Come here Watson, I need you" kind of message.

The truths I would hold to be self-evident are the work patterns that are emerging in society, and the ergonomics that are associated with the device. A little thing that fits in your shirt pocket is going to have a small screen. If it has a keyboard at all it's going to be teeny, and it's probably going to have some pen-based input. So it's better for short notes, jotting little points, viewing small screenfuls of information, versus the thing that has a nice big comfortable keyboard and a huge two-page display and so forth.

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continued on page 214

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All systems carry 2 years labor & 1 year parts warranty. All prices reflect a 3% cash discount. Prices and availability subject to change without notice.

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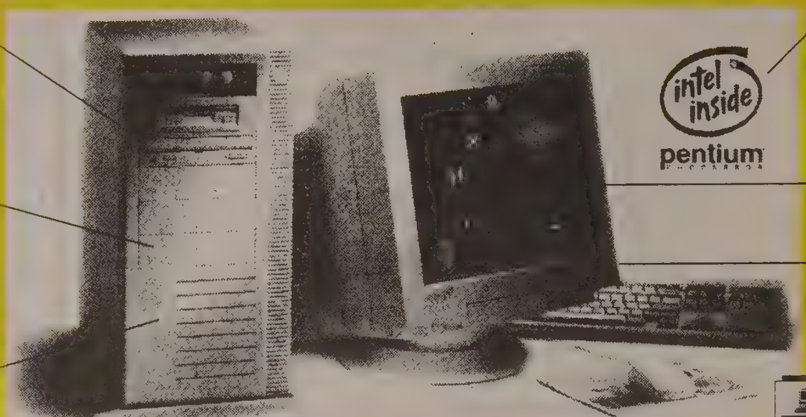
It's here and here's what you need to use it...



CD-ROM
Minimum: **2X**
Recommend: **4X**
Optimal: **4X or 6X**

Memory (RAM)
Minimum: **4MB**
Recommend: **8MB**
Optimal: **16MB**

Hard Drive
Minimum: **200MB**
Recommend: **540MB**
Optimal: **850MB-1.0GB**

Processor (CPU)
Minimum: **386DX**
Recommend: **486DX**
Optimal: **Pentium**

Video Card
Minimum: **VGA**
Recommend: **32-bit SVGA Accelerator**
Optimal: **64-bit SVGA Accelerator**

Monitor
Minimum: **14" VGA**
Recommend: **15" SVGA**
Optimal: **15" or 17" Flat SVGA w/Digital Control**

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START HERE

It's been a long wait but Windows 95 is finally here! Now, you can be more productive, do more things, and do it all easier. And Envision has the solutions for you to fully utilize it, whether you're upgrading an existing computer or buying a new computer.

What do I need to run Win'95?

You've heard all about Windows 95 and now you want it. What do you need? Well, we've put together a general overview to give you an easy guide to getting up and running with Windows 95.

Processor (CPU)

Microsoft's minimum requirements are a 386DX, but recommends at least a 486DX or DX2. We recommend looking at **Pentiums**. With the new Windows 95 innovations like improved graphics and multimedia performance, many software developers are already creating exciting new titles. That means that to enjoy these new titles, you're going to need all the speed you can get, and momentum is headed towards the Pentiums because of their 64-bit architecture and higher speeds. Because of this, Pentiums make a better long-term investment. Thus, for home and small office use, look at **Pentium-75s or 90s**. For most business uses, look at **Pentium 90s and 100s**. For power users, **Pentiums 120s and 133s** are the ticket. The key is to buy with the thought that your computer should last you a while.

Motherboard

For motherboards, you should look for systems with **PCI bus**, the standard bus for Windows 95. PCI buses offer wider channels for your data to flow from your peripheral cards such as your graphics card and drive controller. PCI buses are also Plug'n Play compatible so if you plug in a new PCI card, Windows 95 automatically senses and configures it without user input. All Pentiums come with PCI buses. A motherboard's chipset is also crucial to system performance as it is the heart of your computer. Intel's new **Triton chipset** runs **20 to 70% faster** than standard Pentium chipsets.

Memory (RAM)

After the CPU and motherboard, memory is the most important ingredient in optimal computer performance. For example, a Pentium 75 with 8MB isn't much faster than a 486DX4-100 with 16MB. If you put 16MB on that Pentium 75, it will run **73% faster**. Microsoft recommends **8MB** (4MB minimum) but you should look at **16MB**, especially if you have a Pentium in mind because the right amount of memory will take you a lot further.

Hard Drive

Just a little over 10 years ago, the first 20MB hard drives were just appearing and it was a big deal. The cost per megabyte was about $30. These days 850MB and up are the standard and a megabyte costs less than 30 cents, 1/100th of what it used to be. But programs are keeping pace. The word processor of yesteryear like WordStar only took up 2 MB. Today's word processor like Microsoft Word takes 15MB. Windows 95 will take up to 60 MB and that doesn't include any applications. Get a good size hard drive that will fit you current and future needs. 540MB is a minimum and strongly consider **850MB** and **1.0GB,** which do not cost much more.

Video Card

For video cards, get a Graphics Accelerators which are designed for specifically graphical interfaces like Windows 95. Accelerators are designed to give shortcuts for the most common graphical operations. Plus accelerators give you higher resolutions (**1024 x 768**) and more colors (**16.7 million**). Look for **32-bit accelerators** as a minimum and **64-bit accelerators** for ultimate performance.

Monitor

You need at least a 14" VGA monitor. However, to enhance your Windows 95 experience, you should get at least a **15" or 17" flat monitor**. The bigger size gives you more viewable area and ability to tap into higher resolutions. Plus flat screens will give you the ability to get a full screen without distortion. For added convenience, consider **digital controls** which save important monitor settings so you don't have to always adjust your screen.

Multimedia

Double Speed CD-ROMs are absolute minimums and you should really consider **quad** or **six speed CD-ROMs**. Quad speed CD-ROMs are probably good for most needs and they don't really cost too much more than double speed CD-ROMs. On sound cards, get **Sound Blaster** for 100% compatibility. It will save you a lot of hassles as many sound cards either do not work or cannot be fully utilized with Windows 95.

ENVISION WINDOWS'95 SOLUTIONS

Windows 95 Ready Computer Systems

Envision Computer Systems are all Windows 95 tested and guaranteed to run*. All you need to do is plug it in and you're ready to go because Envision has been working with Microsoft to ensure total compatibility for over a year. A matter of fact, all Envision systems shipped in the last 6 months are Windows 95 Ready. That's because Envision chooses only the finest parts and thoroughly test each part for integrity, reliability and compatibility before we use them in our systems. Here's just a few examples:

Envision systems all come standard with **Enhanced IDE** hard drives and controllers for optimal disk performance. You get **32-bit or 64-bit Super VGA Graphics Accelerators** which give you enhanced graphics performance plus utilization of Windows 95's new **on-the-fly resolution changing** capabilities for instant resolution changes when you need to see more on your screen: **EPA Energy Star power management** is standard so you can safely leave your computer on 24 hours a day without running up your power bill. All Envision systems with multimedia come with **Sound Blaster 16** sound cards, the only sound card guaranteed by Microsoft to run with Windows 95, and fast **double**, **quad** and even **six speed CD-ROMs** to tap into the thousands of Windows 95 software titles now available.

For the Ultimate Win'95 Experience
Envision Triton Pentium PowerStations

For the ultimate in performance, look at **Envision Triton Pentium Powerstations**. They come with Intel's newest Triton chipset for **up to 70% performance** gain over standard Pentiums. It has support for new memory and caching technologies such as **EDO** memory and **SychroBurst** pipeline burst cache and advanced CPU support **up to 133MHz**. Plus new **Mode 4 Enhanced IDE** & **bus-mastering IDE controller** hard drive technology for increased disk performance. And don't forget **Plug'n Play** & **Flash BIOS** for greater flexibility and future upgradability.

For Existing Systems
Envision WinUpgrades 95

If you have an existing system and don't want to buy a completely new system, Envision offers **WinUpgrades 95** hardware upgrades to bring you systems up to speed. And as part of Envision's super Windows 95 promotion, we'll install you WinUpgrades 95 upgrade for special low installation charges (see next page).

Don't Know How to Install Windows 95

Envision also has installation services to help install Windows 95 onto your system so you can get up and running without configuration hassles. Envision has specially trained technicians who can help you be productive right away.

Windows 95 Ready Hardware Upgrades *next page*

Windows 95 Ready Computer Systems *see last 2 pages (3-4)*

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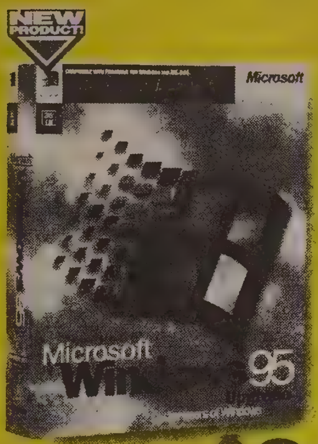

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$19.95 each additional item after the first 2

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Your Windows 95 HeadQuarters

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Windows 95 Hardware Upgrades for Your System

CPU/SYSTEM Upgrade the motherboard and CPU on your existing system and realize the full power of Windows 95. You can pump new life into your 286, 386 and older 486 systems without throwing away your whole investment.	**486DX2-66** 486 CPU, Motherboard, and CPU Cooling Fan **$199.95** 486DX2-80 $219.95 486DX4-100 $249.95	**Pentium 75** Intel Pentium CPU, Motherboard & Fan **$399.95** Pentium 90 $499.95 Pentium 100 $599.95	**Pentium 75** Pentium CPU, Triton Motherboard & Fan **$479.95** Pentium 90 $579.95 Pentium 100 $679.95
MEMORY Memory is a crucial part of Windows 95 system performance and is probably the best investment of any upgrade you can do to your system.	**4MB** 72 Pin SIMM (1x32) **$149.95**	**8MB** 72 Pin SIMM (2x32) **$279.95**	**16MB** 72 Pin SIMM (4x32) **$549.95**
HARD DRIVES Where are you going to store all those new Windows 95 programs. Windows 95 itself takes up 50-60MB and each add'l program takes up about 15MB. The solution: add a new hard drive!	**560MB** Enhanced IDE 12ms AccessTime **$159.95**	**850MB** Enhanced IDE Mode 4 10ms AccessTime **$189.95**	**1,279MB** Enhanced IDE Mode 4 10ms AccessTime **$249.95**
MULTIMEDIA KITS INCLUDE: CD-ROM Drive Sound Blaster 16 Sound Card 20 CD Titles incl. Encyclopedia Pair of Multimedia Speakers	**2X Kit** NEC Double Speed IDE **$179.95**	**4X Kit** Quad Speed IDE **$249.95**	**6X Kit** NEC Six Speed SCSI **$499.95**

Note: Upgrades may require additional hardware to work or may not work with your system.

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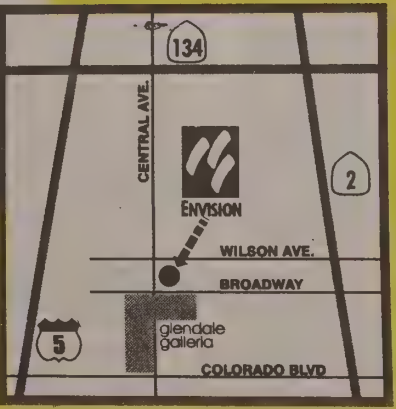

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YOUR WINDOWS'95

Pentiums from $999!
120MHz & 133MHz AVAILABLE!

Stuck in the computer slow lane? Then try Envision's Pentiums on for size! Envision has value priced Pentiums to fit your budget from only $999. At up to 350% faster than a 486, they fly. At these prices, they'll leave our showrooms even faster!

Ready to Run Windows 95

All Envision Pentium Systems are Windows 95 Ready. All you have to do is buy a copy of Windows 95 and you're set to roll! That's because Envision has spent the last year making sure all our systems are ready to run with Windows 95 so that you don't have to worry. All you have to worry about is how to spend your extra free timenow that your Envision Pentium system and Windows 95 has made you way more productive.

Award Winning 64-bit Accelerators

All Envision Pentium systems (except Pentius) incorporate award winning 64-bit graphics accelerators from ATI or Diamond for maximum graphics power. The mach64, winner of PC Magazine's Editor's Choice, offers unmatched video performance plus motion video acceleration to make your graphics fly!.

Hi-Speed Serial & Parallel Ports Standard

Hi-speed 16550 serial ports and enhanced bi-directional ports are now standard on Envision Pentums giving your computer support for today's latest and fastest modems and other communications devices.

ENVISION GIVES YOU MORE POWER!
Envision Tritons are faster than the competitions!

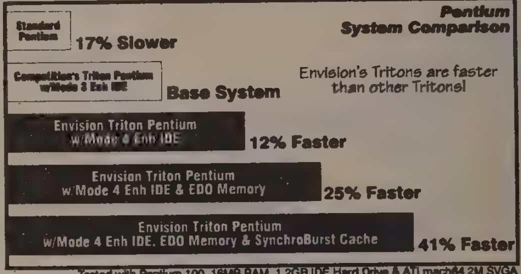
Envision was first to offer you the power of Intel's new Triton chipset in our Triton PowerStation systems. Now, Envision will take you to a whole new dimension in power with EDO memory and SynchroBurst synchronous pipeline burst cache technology. You'll get up to 40% more power than standard Triton systems and up to 70% more power than standard Pentiums.

Intel Triton Power

With Intel's revolutionary Triton chipset, you get 20%-70% more speed than standard Pentium chipsets giving you added performance from the very same Pentium processor thanks to a more integrated design, built-in PCI bus-mastering IDE, support for Mode 4 Enh IDE hard drives, support for new higher-bandwith EDO memory and SynchroBurst Cache. And because only Envision utilizes all the Triton's features, our Triton Systems are faster than the competition's Triton systems (see chart).

New SynchroBurst Cache Architecture

Over the past few years, CPUs have dramatically increased in speed and performance. Unfortunately, memory technology has stood still over those years creating bottlenecks and slowing overall performance of computers. All that will change with Envision's new SyncBurst cache architecture which provides a synchronous data channel allowing twice as much data to flow from CPU to memory alleviating bottlenecks while letting your computer operate at peak performance. SychroBurst is available as an option on all Triton PowerStations



Tested with Pentium 100, 16MB RAM, 1.2GB IDE Hard Drive & ATI mach64 2M SVGA

EDO (Extended Data Output) Memory

Get more performance with EDO memory which provides double the bandwith between your CPU & memory (100MB/s vs. 200MB/s) giving you up to another 11% more performance. EDO is available on all Triton Systems as an upgrade option.

Bus Mastering Mode 4 Enhanced IDE

With Triton, you get Mode 4 Enh IDE hard drives with even faster hard drive data transfer rates of 16.67MB/s. Combine that with the new built-in bus-mastering PCI IDE interface, which takes the load of handling hard drive data transfer operations off the CPU, and you get performance that's up to twice as fast Mode 3 hard drives and five times faster than standard IDE hard drives.

Pentium ValueStations

Affordable Pentium Power from $999!
or $36 per month

Pentius

PENTIUM · 8MB RAM · 540MB EIDE HD

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$1,099 Pentium 90
$1,199 Pentium 100

- Intel **Pentium-75/90/100 MHz**
- **4 PCI** Local Bus Slots & **4 ISA** Slots
- **8MB** Fast RAM, expandable to **128MB**
- **256K Write-back static** Cache
- **540MB** Enhanced IDE Hard Drive (850MB-$50)
- **3.5" 1.44MB** High Density Floppy Drive
- Integrated **PCI Enhanced IDE** HD Controller
- **32-bit PCI Super VGA** Graphics Accelerator
- 2 **Serial/1 Parallel Ports**
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse
- **MONITOR SOLD SEPERATELY**

MULTIMEDIA SYSTEMS		75	90	100
2X	*EXPLORER 2X* 2X CD-ROM · SOUND BLASTER 16	1179	1279	1379
4X	*ADVENTURER 4X* 4X CD-ROM · SOUND BLASTER 16	1249	1349	1449

Maximus

8MB RAM · 540MB EIDE HD · 15" MONITOR

FINANCE as low as **$49*** per month

$1,249 Pentium 75
$1,349 Pentium 90
$1,449 Pentium 100

- Intel **Pentium-75/90/100 MHz**
- **4 PCI** Local Bus Slots & **4 ISA** Slots
- **8MB** Fast RAM, expandable to **128MB**
- **256K Write-back static** Cache
- **540MB** Enhanced IDE Hard Drive (850MB-$50)
- **3.5" 1.44MB** High Density Floppy Drive
- Integrated **PCI Enhanced IDE** HD Controller
- **64-bit PCI ATI mach64 SVGA** Accelerator or
- **15"** Flat SVGA Non-Interlaced Monitor (0.28)
- 2 **Hi-Speed 16550 UART Serial Ports**
- **ECP/EPP Enhanced Parallel** Port
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse

MULTIMEDIA SYSTEMS		75	90	100
2X	*EXPLORER 2X* 2X CD-ROM · SOUND BLASTER 16	1429	1529	1629
4X	*ADVENTURER 4X* 4X CD-ROM · SOUND BLASTER 16	1499	1599	1699

Colossus

16MB RAM · 850MB EIDE HD · 15" MONITOR

FINANCE as low as **$64*** per month

$1,649 Pentium 75
$1,749 Pentium 90
$1,849 Pentium 100

- Intel **Pentium-75/90/100 MHz**
- **4 PCI** Local Bus Slots & **4 ISA** Slots
- **16MB** Fast RAM, expandable to **128MB**
- **256K Write-back static** Cache
- **850MB** Enhanced IDE Hard Drive (1.28GB-$80)
- **3.5" 1.44MB** High Density Floppy Drive
- Integrated **PCI Enhanced IDE** HD Controller
- **64-bit PCI ATI mach64 SVGA** Accelerator
- **15"** Flat SVGA Non-Interlaced Monitor (0.28)
- 2 **Hi-Speed 16550 UART Serial Ports**
- **ECP/EPP Enhanced Parallel** Port
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse

MULTIMEDIA SYSTEMS		75	90	100
2X	*EXPLORER 2X* 2X CD-ROM · SOUND BLASTER 16	1829	1929	2029
4X	*ADVENTURER 4X* 4X CD-ROM · SOUND BLASTER 16	1899	1999	2099

Pentium Triton PowerStations

Featuring Triton Technology from $1,399!
or $56 per month

Triton Warrior

8MB RAM · 850MB EIDE-4 HD ; 15" MONITOR

FINANCE as low as **$56*** per month

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$1,499 Pentium 90
$1,599 Pentium 100
$1,899 Pentium 120

- Intel **Pentium-75/90/100/120 MHz**
- Intel **Triton Chipset (Up to 70% Faster)**
- Plug'n Play Flash BIOS (Ready for Windows 95)
- **3 PCI** Local Bus Slots & **4 ISA** Slots
- **8MB** Fast RAM, expandable to **128MB**
  UPGRADE TO EDO MEMORY - ADD $100
- **256K Write-back static** Cache
  UPGRADE TO SYNCHRO-BURST CACHE - ADD $150
- **850MB Mode 4 Enh IDE** Hard Drive 10ms
- **3.5" 1.44MB** High Density Floppy Drive
- Bus Mastering **PCI Mode 4 Enh IDE** Controller
- **64-bit PCI ATI mach64 SVGA** Accelerator **OR**
  Diamond Stealth 64 Video SVGA Accelerator
- **15"** Flat SVGA Non-Interlaced Monitor (0.28)
- 2 **Hi-Speed 16550 UART Serial Ports**
- **ECP/EPP Enhanced Parallel** Port
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse

MULTIMEDIA SYSTEMS		75	90	100	120
2X	*EXPLORER 2X* 2X CD · SOUND BLASTER 16	1579	1679	1779	2079
4X	*ADVENTURER 4X* 4X CD · SOUND BLASTER 16	1649	1749	1849	2149
6X	*CHALLENGE 6X-SCSI* NEC 6X SCSI-2 CD-ROM SOUND BLASTER 16 SCSI-2	1999	2099	2199	2499

Triton Gladiator

16MB RAM · 1.28GB EIDE-4 HD · 15" MONITOR

FINANCE as low as **$71*** per month

$1,899 Pentium 90
$1,999 Pentium 100
$2,299 Pentium 120
$2,499 Pentium 133

- Intel **Pentium-90/100/120/133 MHz**
- Intel **Triton Chipset (Up to 70% Faster)**
- Plug'n Play Flash BIOS (Ready for Windows 95)
- **3 PCI** Local Bus Slots & **4 ISA** Slots
- **16MB** Fast RAM, expandable to **128MB**
  UPGRADE TO EDO MEMORY - ADD $200
- **256K Write-back static** Cache
  UPGRADE TO SYNCHRO-BURST CACHE - ADD $150
- **1.28GB Mode 4 Enh IDE** Hard Drive 10ms
- **3.5" 1.44MB** High Density Floppy Drive
- Bus Mastering **PCI Mode 4 Enh IDE** Controller
- **64-bit PCI ATI mach64 SVGA** Accelerator/2M **OR**
  Diamond Stealth 64 Video SVGA Accelerator/2M
- **15"** Flat SVGA Non-Interlaced Monitor (0.28)
- 2 **Hi-Speed 16550 UART Serial Ports**
- **ECP/EPP Enhanced Parallel** Port
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse

MULTIMEDIA SYSTEMS		90	100	120	133
2X	*EXPLORER 2X* 2X CD · SOUND BLASTER 16	2079	2179	2479	2679
4X	*ADVENTURER 4X* 4X CD · SOUND BLASTER 16	2149	2249	2549	2749
6X	*CHALLENGE 6X-SCSI* NEC 6X SCSI-2 CD-ROM SOUND BLASTER 16 SCSI-2	2499	2599	2899	3099

Triton Terminator

16MB · 2.1GB WIDE SCSI-3 HD · 17" MONITOR

FINANCE as low as **$117*** per month

$3,099 Pentium 90
$3,199 Pentium 100
$3,499 Pentium 120
$3,699 Pentium 133

- Intel **Pentium-90/100/120/133 MHz**
- Intel **Triton Chipset (Up to 70% Faster)**
- Plug'n Play Flash BIOS (Ready for Windows 95)
- **3 PCI** Local Bus Slots & **4 ISA** Slots
- **16MB** Fast RAM, expandable to **128MB**
  UPGRADE TO EDO MEMORY - ADD $200
- **256K Write-back static** Cache
  UPGRADE TO SYNCHRO-BURST CACHE - ADD $150
- **2.1GB Wide SCSI-3** Hard Drive 9ms (4.2GB-$700)
- **3.5" 1.44MB** High Density Floppy Drive
- Bus Mastering **PCI Wide SCSI-3** Controller(20MB/s)
- **64-bit PCI ATI mach64 SVGA** Accelerator/2M **OR**
  Diamond Stealth 64 Video SVGA Accelerator/2M
- **Mag DX17F 17"** Flat SVGA NI Monitor (0.26)
- 2 **Hi-Speed 16550 UART Serial Ports**
- **ECP/EPP Enhanced Parallel** Port
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse

MULTIMEDIA SYSTEMS		90	100	120	133
2X	*EXPLORER 2X* 2X CD · SOUND BLASTER 16	3279	3379	3679	3879
4X	*ADVENTURER 4X* 4X CD · SOUND BLASTER 16	3349	3449	3749	3949
6X	*CHALLENGE 6X-SCSI* NEC 6X SCSI-2 CD-ROM SOUND BLASTER 16 SCSI-2	3699	3799	4099	4299

Add Windows 95 to Any System for $99

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4MB RAM · 425MB EIDE HD · 14" MONITOR

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$848 486DX4-100

- 486DX2-66/**DX2-80/DX4-100 MHz**
- **3 32-bit VLB** Local Bus Slots & **4 ISA** Slots
- **4MB** Fast RAM, expandable to **64MB**
- **256K Write-back static** Cache
- **425MB** IDE Hard Drive (560MB-$20)
- **3.5" 1.44MB** High Density Floppy Drive
- VLB **Enhanced IDE-I/O** HD Controller
- **32-bit VLB Super VGA** Graphics Accelerator/1M
- **14" Full Screen SVGA** Monitor (0.28/1024x768)
- 2 **Serial/1 Parallel/1 Game Ports**
- **Mini Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard
- **Hi-Resolution Serial** Mouse

MULTIMEDIA SYSTEMS	66	80	100
2X *EXPLORER 2X* 2X CD-ROM · SOUND BLASTER 16	978	998	1028
4X *ADVENTURER 4X* 4X CD-ROM · SOUND BLASTER 16	1048	1068	1098

486 ValueStation

8MB RAM · 560MB EIDE HD · 14" MONITOR

FINANCE as low as **$36*** per month

$978 486DX2-66
$998 486DX2-80
$1,028 486DX4-100

- 486DX2-66/**DX2-80/DX4-100 MHz**
- **3 32-bit VLB** Local Bus Slots & **4 ISA** Slots
- **8MB** Fast RAM, expandable to **64MB**
- **256K Write-back static** Cache
- **560MB** Enhanced IDE Hard Drive (850MB-$75)
- **3.5" 1.44MB** High Density Floppy Drive
- VLB **Enhanced IDE-I/O** HD Controller
- **32-bit VLB Super VGA** Graphics Accelerator/1M
- **14" Super VGA** Monitor (0.28/1024x768)
- 2 **Serial/1 Parallel/1 Game Ports**
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard
- **Hi-Resolution Serial** Mouse

MULTIMEDIA SYSTEMS	66	80	100
2X *EXPLORER 2X* 2X CD-ROM · SOUND BLASTER 16	1158	1178	1208
4X *ADVENTURER 4X* 4X CD-ROM · SOUND BLASTER 16	1228	1248	1278

86 PowerStation

8MB · 64-BIT SVGA · 850MB EIDE HD · 15" MONITOR

FINANCE as low as **$44*** per month

$1,178 486DX2-66
$1,198 486DX2-80
$1,228 486DX4-100

- 486DX2-66/**DX2-80/DX4-100 MHz**
- **3 32-bit VLB** Local Bus Slots & **4 ISA** Slots
- **8MB** Fast RAM, expandable to **64MB**
- **256K Write-back static** Cache
- **850MB** Enhanced IDE Hard Drive (1.08GB-$125)
- **3.5" 1.44MB** High Density Floppy Drive
- VLB **Enhanced IDE-I/O** HD Controller
- **64-bit VLB Diamond Stealth 64 SVGA** Accelerator
- **15" Flat Super VGA** Monitor (0.28/1280x1024)
- 2 **Serial/1 Parallel/1 Game Ports**
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard
- **Hi-Resolution Serial** Mouse

MULTIMEDIA SYSTEMS	66	80	100
2X *EXPLORER 2X* 2X CD-ROM · SOUND BLASTER 16	1358	1378	1408
4X *ADVENTURER 4X* 4X CD-ROM · SOUND BLASTER 16	1428	1448	1478

Add Windows 95 to Any System for $99

WE'RE HERE TO SERVE YOU!

Envision also has some of the best service and support. At Envision, we feel that it the most important factor in choosing a computer is not the price or performance, but the place you buy it from. That's why our staff is dedicated to giving you the best service and support possible.

2 YEAR LABOR/1 YEAR PARTS FACTORY WARRANTY

*All Envision Systems are backed with Envision's exclusive **2 years labor** and **1 year parts warranty** for piece of mind.*

GE Service Protection Plus Extended 4 Year Service Plans

*And for added piece of mind, you can add a **4 year on-site extended service plan** from **General Electric** - the nation's leader in service and suport.*

96 HOUR BURN-IN TESTING

*All Envision Systems are run through Envision's comprehensive **96-hour burn-in** testing to ensure system integrity & reliability and give you piece of mind.*

CUSTOMIZED CONFIGURATIONS

Envision has many different models to choose from but if you don't see the configuration that best suits your need, we would be happy to custom configure your system the way you want.

FINANCING OPTIONS

You can buy a new Envision computer by cash, check, VISA, MasterCard, American Express or Discover. Envision also has many different financing plans to fit your budget. Choose from various payment plans.

PAY NO INTEREST FOR UP TO 120 DAYS

120 DAYS SAME AS CASH!

*You can now take advantage of our 120 days same as cash plan which now gives you up to **120 days** to pay for your computer **without paying interest!***

A FRIENDLY & KNOWLEDGABLE STAFF TO HELP YOU

9+ YEARS IN THE INDUSTRY

SYSTEM UPGRADES AND OPTIONS

Additional 5.25" 1.2MB Floppy Drive	45	2X IDE CD-ROM	89	Sound Blaster 16 Sound Card	69
Additional 3.5" 1 44MB Floppy Drive	35	4X IDE CD-ROM	159	Ethernet 16-bit Network Adapter	35
14 4 Fax Modem	59	Conner 250MB Tape Backup	135	DOS 6 22/Windows for Workgroups	99
14 4 Fax Modem w/Voice Mail	69	Conner 420MB Tape Backup	159	Windows 95 (Available 8/24)	99
28.8/14 4 Fax Modem Internal v.34	129	Colorado 350MB Tape Backup	149	Epson Stylus 720dpi Color Printer	529
US Robotics 14 4 Int Fax Modem	79	Colorado 700MB Tape Backup	179	Hewlett Packard Deskjet 540 Printer	199
US Robotics 28 8 Int Fax Modem v.34	199	Colorado T1000 800MB Tape Backup	199	Hewlett Packard Deskjet 540 Color Kit	45

CALL FOR OTHER OPTIONS AND UPGRADES NOT LISTED

SYSTEM MULTIMEDIA OPTIONS

EXPLORER 2X IDE

NEC 2X E-IDE CD-ROM (280ms)
Sound Blaster 16 Sound Card
20 Titles & Speakers
$179.97

ADVENTURER 4X IDE

Hitachi 2X E-IDE CD-ROM (195ms)
Sound Blaster 16 Sound Card
20 Titles & Speakers
$249.97

CHALLENGER 6X SCSI

NEC 6X SCSI-2 CD-ROM (150ms)
Sound Blaster 16 SCSI-2 Sound Card
20 Titles & Speakers
$499.97

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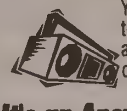
FamilyPC

Designed with your family in mind

*FamilyPC... it's a whole new type of computer. That's because it's not just a computer, it's also a fax machine, modem, answering machine, CD stereo system, cable-ready TV, video game player & multimedia computer all in one complete unit. It also includes loads of useful software for the whole family like **Microsoft Works** which includes a **spreadsheet, word processor & database** so that Dad can bring home work from the office. Mom can manage the family finances with **Microsoft Money**. Son can research the world with the 21 Volume **Grolier's 1995 Encyclopedia**. Daughter can find the latest news for her report with **America Online**. Imagine doing so much from one place! It's FamilyPC... designed with your family in mind.*

It's a CD Stereo System



You can select you favorite music CD to keep you relaxed while you type away. And with a built-in mixer, you can adjust the volume or balance.

It's an Answering Machine

The FamilyPC can answer your phone with the built-in voice mail system. It can direct messages to up to 999 mailboxes or even page you.

It's a Fax Machine & Modem

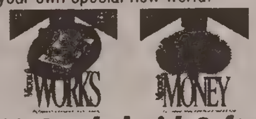
INTERNET 14.4 INFORMATION SUPERHIGHWAY READY

Receive or send faxes anywhere in the world with the built-in fax. Or call your favorite online service to see the latest news, shop at thousands of stores, or check your bank account balance with the built-in modem. You can even hook into Internet, that "information superhighway" you've been hearing so much about.

It's a Multimedia Computer

MPC Multimedia PC

At the heart of every FamilyPC is a full multimedia compter system ready to access the more than 5000 multimedia CD-ROM titles now on the market from 29 volume full encyclopedias to interactive stories that read to kids to educational programs that can teach you kids subjects like history or calculus or access great works of literature to exciting games that let you conquer the world or build your own special new world.



AMERICA Online

It's Loaded with Software

It comes with lots of software like Microsoft DOS, Microsoft Windows, Microsoft Works, Microsoft Money, Grolier's 1995 29 Volume Encyclopedia, Webster's Dictionary, Webster's Thesaurus, Hammond's Atlas, World Almanac, America Online, and over 20 more exciting titles including exciting action-packed games and informative reference titles.

SPECIFICATIONS

- **486DX2, 486DX4 or Pentium** CPUs
- **8MB** Memory, ex to 64MB
- **3.5" 1.44MB** Floppy Drive
- **540MB** Hard Drive, upgradable to 1,275MB
- **14"** Super VGA Non-Interlaced Monitor (0.28)
- Enhanced **101-key** Keyboard
- High-Resolution Serial **Mouse**
- **Double** Speed **CD-ROM Drive (4X-only $80 more)**
- **Sound Blaster 16** Sound Card & **Speakers**
- 14,400bps v.32bis Fax & Modem
- Voice Mail Phone Messaging System
- Optional TV Tuner available ($179 extra)

LOADS OF SOFTWARE INCLUDED

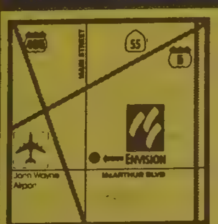
- Microsoft Windows 95
- Microsoft Works 3.0
- Microsoft Money 3.0 (family finance manager)
- 21 Volume 1995 Grolier's Encyclopedia
- America Online & over 20 more exciting titles!

5 Models to Choose From

486DX2-66	$1,329
486DX2-80	$1,349
486DX4-100	$1,369
Pentium 75	$1,679
Pentium 90	$1,779

OR FINANCE FOR AS LOW AS $51/MO

NEW GLENDALE 23,000SF MEGASTORE NOW OPEN!



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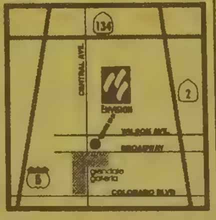

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BY ANNA COUEY

The NII Band: Network Access For All?

> "MANY OF THE NETWORKS THAT WILL FORM THE FUTURE NII WILL BE OUTGROWTHS OF THE NETWORKS WE NOW RELY ON: THOSE OWNED BY TELEPHONE COMPANIES, CABLE COMPANIES, TELEVISION BROADCASTERS, SATELLITE OPERATORS, CELLULAR...
>
> "TO A VERY SIGNIFICANT EXTENT, NETWORKS WILL BE BUILT, AND SERVICES PROVIDED, ONLY WHEN THEY CAN BE JUSTIFIED BY ANTICIPATED ADVERTISING REVENUES, SERVICE FEES, ACCESS CHARGES...
>
> "THE NII BAND WOULD ADVANCE A HOST OF PUBLIC POLICY OBJECTIVES, INCLUDING ASSURING THAT ALL SEGMENTS OF SOCIETY HAVE ACCESS TO THE 'INFORMATION SUPERHIGHWAY.' "
>
> —APPLE COMPUTER,
> PETITION FOR RULEMAKING "NII BAND"

A petition for a National Information Infrastructure that provides free network access to all, anywhere, anytime is now on the table at the Federal Communications Commission.

The petition, filed by Apple Computer, has been shaped in part by the community network movement. It calls for the creation of a National Information Infrastructure Band—300MHz of spectrum for high-capacity, unlicensed wireless data—to be allocated for public use.

The FCC appears to be taking the idea seriously. The agency has agreed to accept public comment by email after the formal filing deadline of July 25, 1995. "They're relaxing the rules to accommodate what they see to be a grassroots movement" in support of public access spectrum, says Dewayne Hendricks of Warp Speed Imageering, a wireless technologies company.

The idea for how public access spectrum would work is surprisingly simple—the government allocates a wide band of radio spectrum for unlicensed public use, the computer industry builds affordable multimedia communications devices that provide access to the spectrum, and the rest of us use the devices as we please to communicate: one on one, one to many, or many to many—for free.

Why Free Spectrum?

Radio spectrum is used in transmitting information via wireless technology. Regulated and allocated by the Federal Communications Commission, it is used primarily by government and broadcast industries (like radio and television).

Until recently, use of unlicensed spectrum has been allowed on bands allocated to other uses, but on the condition that it not interfere with authorized use. Nor is it protected from interference from other uses. In recent years, the FCC has begun to auction off spectrum to the highest bidder. The current rate is roughly $7 billion for 70MHz of spectrum. In other words, spectrum is not something most of us can count on having access to.

Spectrum has become an issue in the development of the National Information Infrastructure because it appears to be the only way to connect the entire country to a communications network. The Internet is built on wired connections—Internet access providers pay hefty fees for such connections; and even more for higher bandwidth to accommodate multimedia applications such as the World Wide Web and its emerging progeny. Providers pass on the cost of the connection to their users if they're a business, or absorb it if they're a university. The problem with wired connections is they are not universally scaleable, or at least not without tremendous cost.

For example, many rural communities do not have large enough populations to attract local Internet access providers, who depend on a large number of users to make a profit. This leaves rural network users who can afford it with toll call or long distance telephone rates simply to reach an Internet provider to whom they must also pay access fees. Those who can't afford it at this point simply don't have access.

Public schools, even in populated areas, typically have very few phone lines. The cost of wiring schools for even minimal Internet access is exorbitant. And buildings that have asbestos walls, wherever they are located, simply cannot be wired at all.

Community networks, run by nonprofit or civic

continued on page 217

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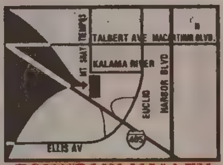

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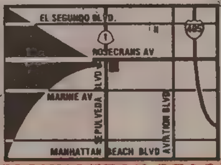

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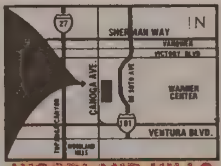

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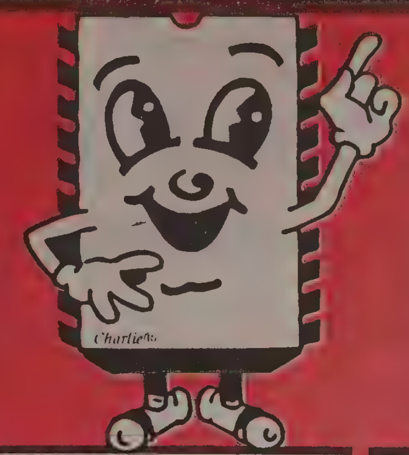

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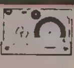

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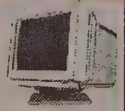

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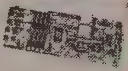

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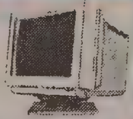

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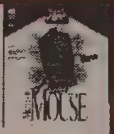

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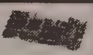

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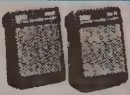

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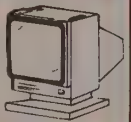

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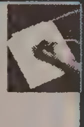

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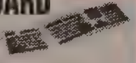

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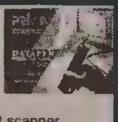

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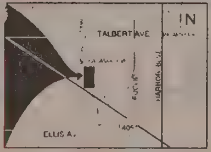

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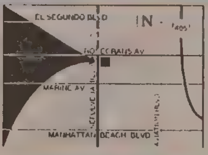

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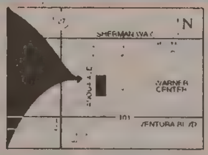

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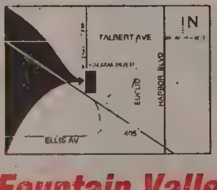

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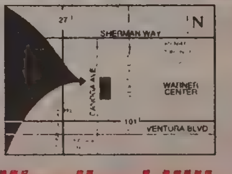

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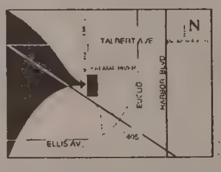

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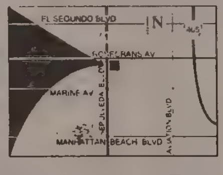

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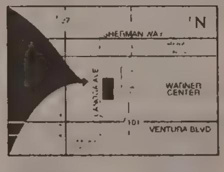

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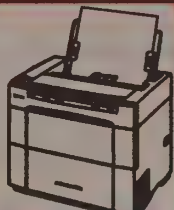

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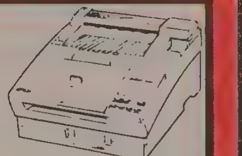

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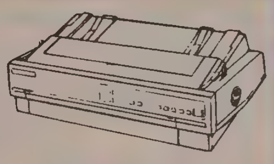

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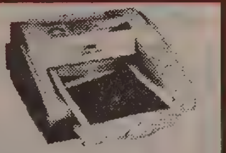

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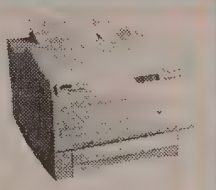

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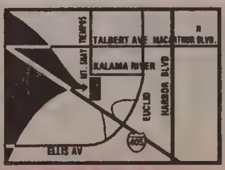

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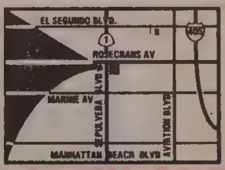

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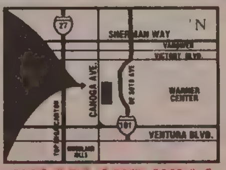

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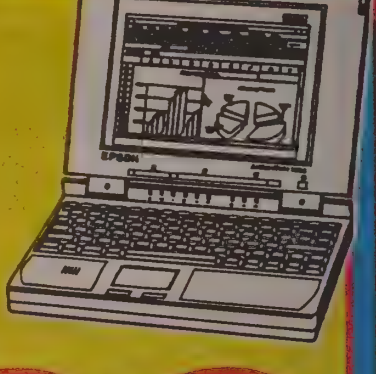

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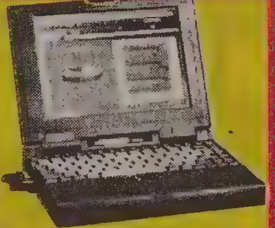

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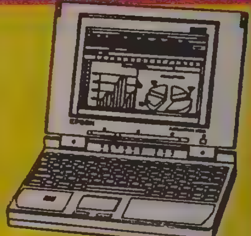

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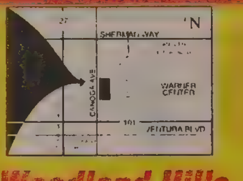
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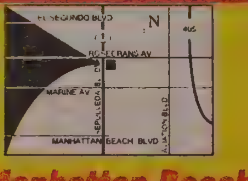
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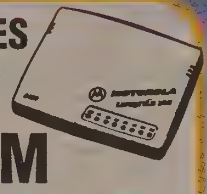
MOTOROLA LIFESTYLE SERIES



28,800 BPS V.34 EXTERNAL FAX/MODEM

- **Quaility**-unparalled Motorola quality and reliability
- **Easy**-Plug and Play combatible
- **Fast**-sendand receive faxes, orders and information at rates up to 115,200bps
- **Efficient**-error correction for clear faxes, reliable data every time
- **Secure**-password and callback security

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MOTOROLA LIFESTYLE SERIES

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- **Easy**-Plug and Play combatible
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- **Efficient**-error correction for clear faxes, reliable data every time
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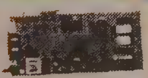
ZOOM



28.8 BPS INTERNAL FAX/MODEM WITH V.34 / V.FAST

Internal Halfcard • Compressed data Through put of 115,200 bps
V.42 bis, and MNP 5 Data Compression
V.42, MNP 2-4 and MNP10 error checking
Complete with Windows and MS DOS communication software
7 Year Warranty
Free Technical Support
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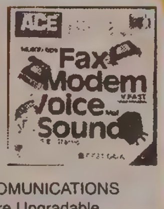

ACE 14,400 BPS FAX/MODEM VOICE MAIL/SOUND

THE ALL IN ONE BOARD FOR SOUND AND COMUNICATIONS
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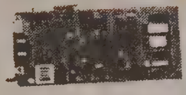

SMART ONE 14,400 BAUD INTERNAL FAX/MODEM

V.42bis • MNP Hardware
V.32bis • Class II
Throughput up to 57,600 bps
Quicklink II for DOS and Windows
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#1798197

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5 Year Warranty
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SIIG, Inc.

Supra 144 PLUS External Fax/Modem

- 14,400 bps fax and data
- Complete Windows package
- Top-rated fax & data software
- Easy-to-install, easy-to-use
- 5-year limited warranty
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#1997903

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28.8 INTERNAL FAX/MODEM TRUE V.34

- Flash ROM-end user upgradable without sending in modem for future upgrades.
- True V.34 (28.8 modems)
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- Caller ID
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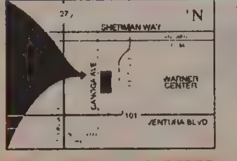

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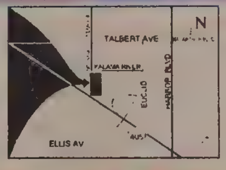

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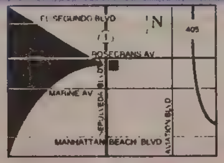

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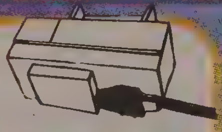

Instant fax capability for your HPDeskJet Printer

- Easier and faster to install than a fax modem
- Lets you use a single phone line
- Auto switching
- Compatible with HP DeskJet 500, 500C, 520, 540, 550C, 560C, and 660C
- Not Compatible with HP Deskwriter, DeskJet models 310, 320, 1200C.

C2970A #2022059

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- Lets you use a single phone line
- Auto switching
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*2MB Memory Required

- Not Compatible with HP LaserJet 4M, 4MP, or 5MP.

C2971A #2022060

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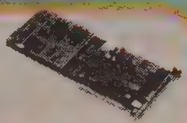
USRobotics The Intelligent Choice in Data Communications

SPORTSTER SI 14.4 INTERNAL DATA/FAX MODEM



- USRobotics quality matched with Rockwell chips
- New WinRPI software based V.42 and V.42BIS data compression
- Universally compatible with all standards of ITU-T (formally CCITT) Up to V.32 BIS
- Supports the AT command set

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28,800 BAUD INTERNAL FAX/MODEM w/V.34

- Class 1 and 2
- Supports up to Com 1-4 and IRQ-3,4,5
- 5 Year Warranty

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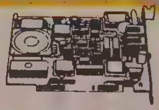

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Super High Speed V.32 BIS Protocol

Quick Link II communication Software

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$79.99

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V.32 and V.42 Bis

Quick Link II Communication Software

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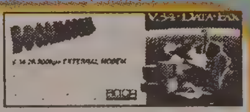
$99.99

BOCAMODEM V.34 28,800 bps External Fax/Modem



New International Standard

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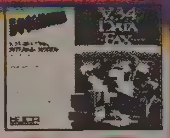
- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Troughput Up to 115,200bps
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

#1981878

$188

BOCAMODEM V.34 28,800 bps Internal Fax/Modem



New International Standard

- 28,800bps Data Modem
- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Throughput Up to 115,200bps
- High-Speed 16C550 UART Serial Card on board
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

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High Speed Modem Coupler

CONNECTS A PORTABLE COMPUTER TO ANY TELEPHONE EASILY.

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- Full or Half Duplex Communication Mode

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V.42 bis, V.42 bis • Communication Software

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Transform your ordinary PC into a powerful multimedia/communications workstation

- 16-bit Multimedia Stereo Sound
- Voice Mail
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- Speakerphone
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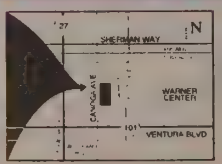

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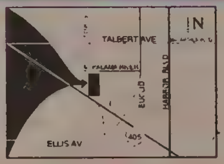

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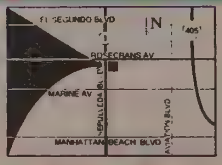

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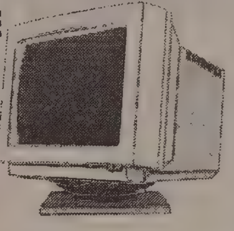


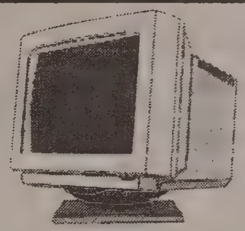
14" SUPER VGA MONITOR

- 1024 x 768
- .39 Dot Pitch
- Green Compliant Color Display

#2042756

$169

SONY.



CPD-15FS

1280 x 1024

15" SUPER VGA MONITOR

15" 1280 X 1024 Resolution • Flat Trinitron Screen
Energy Star Compliant
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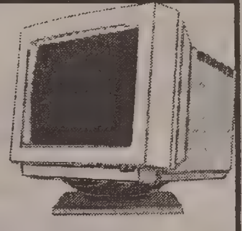
HITACHI



SuperScan™ 15s
Non-Interlaced
1280 x 1024

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Non-Interlaced • .28 dpi • Flat Screen
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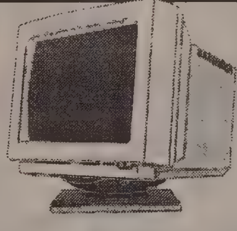
NEC



XV15
Multisync
15"

FLAT SCREEN SVGA MONITOR

1280 x 1024 • EPA Energy Star Compliant • VESA
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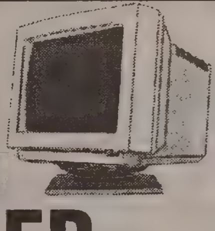
MiTAC



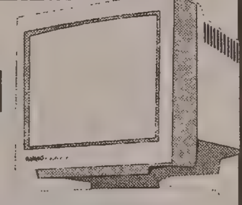
1280 x 1024
NON-INTERLACED

17" SUPER VGA MONITOR w/DIGITAL CONTROL

#1983515

$595

NANAO



Non-Interlaced
17"

FLAT SCREEN MONITOR

1280 x 1024 • Flat Screen • .28mm dot pitch
Non-Interlaced
#2017051

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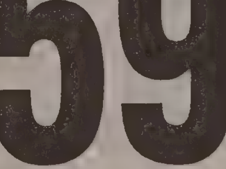

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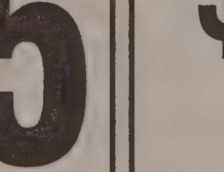

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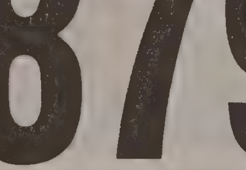

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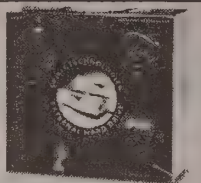

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- Redline! Disk Utilities • Stackable
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MODEL 1.2
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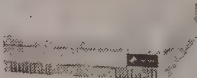

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Cables and software included.

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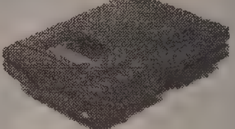

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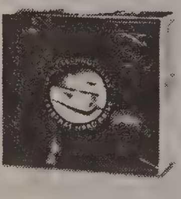

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External, removeable Syquest hard drive with one 200MB Cartridge and cables.

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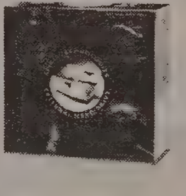

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External, removeable Syquest hard drive with one 270MB Cartridge and cables

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230MB Magneto-Optical Rewriteable Disk Drive for Macintosh®

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- Average Seek Time: 30ms typ
- SCSI 2 Interface
- 50 pin DB centronics (input)
- One Inch Height

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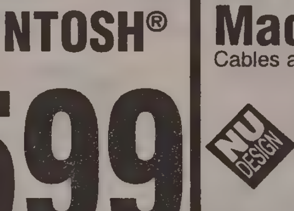

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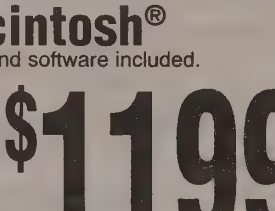

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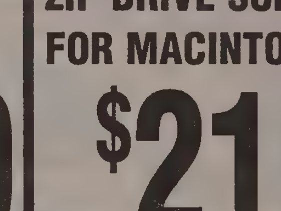

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3.5" x 1" ht.
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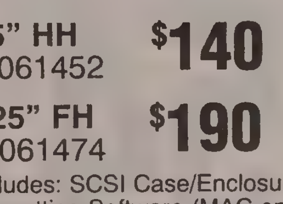

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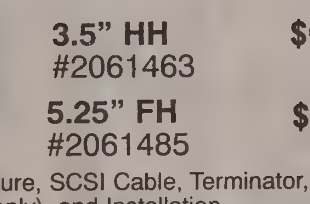

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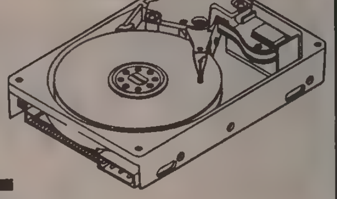

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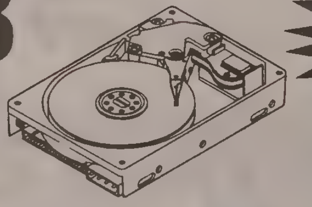

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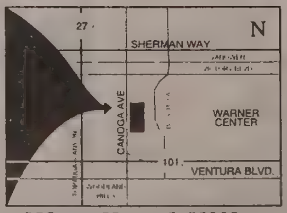
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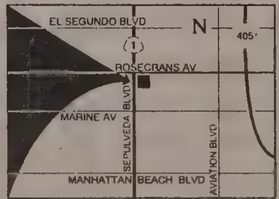
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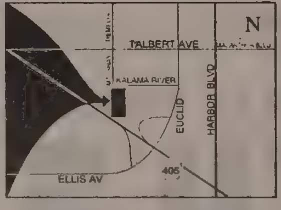
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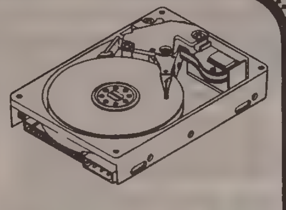

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- 3600 RPM

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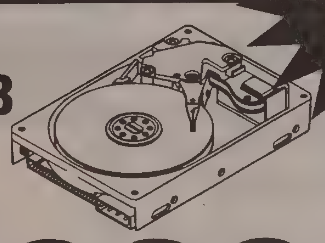

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- 5400RPM
- P10 Mode 4
- 128K Buffer

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- 64K Data Buffer
- 3600 RPM

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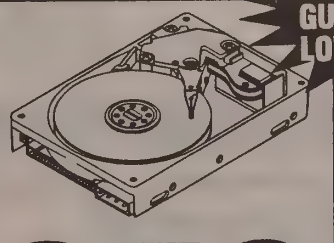

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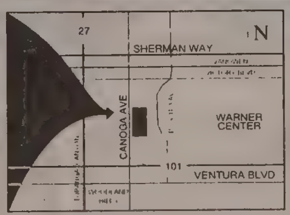
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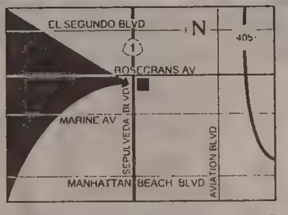
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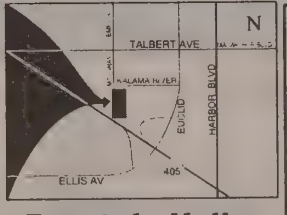
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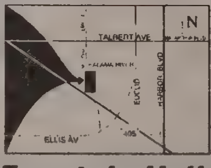
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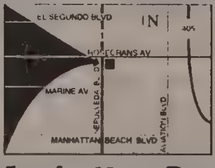
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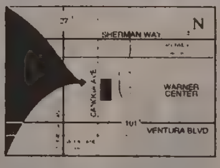
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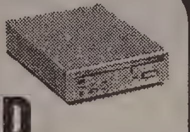

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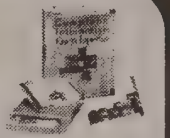

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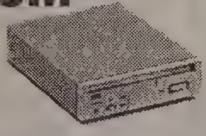

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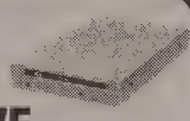

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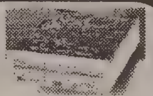

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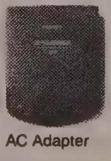

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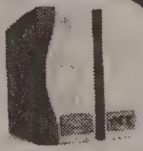

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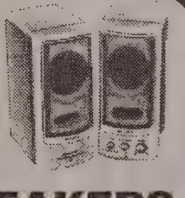

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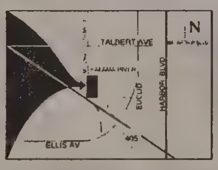

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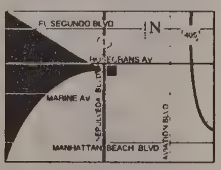

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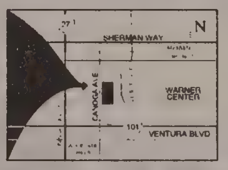

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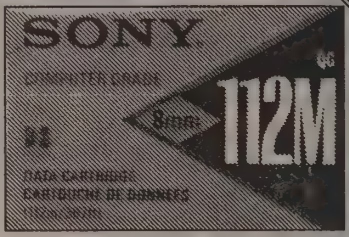
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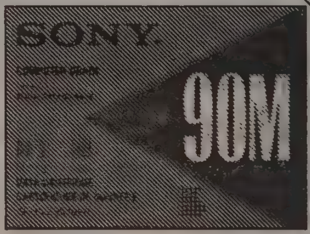
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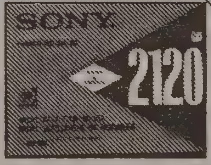

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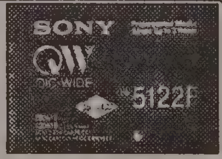
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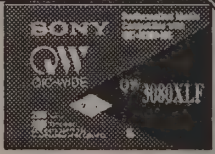
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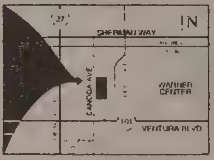
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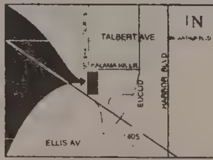
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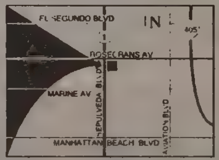
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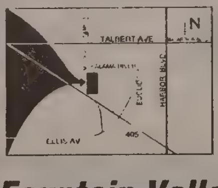

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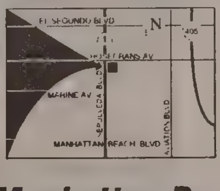

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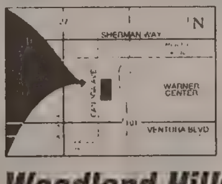

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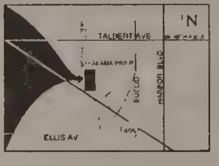

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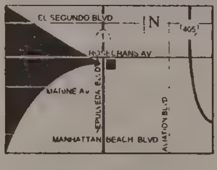

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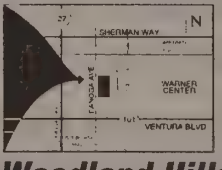

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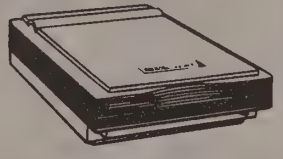

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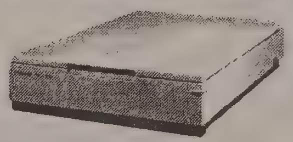

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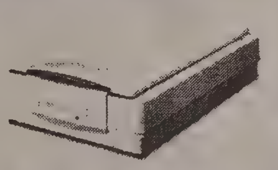

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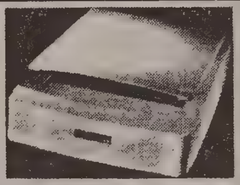

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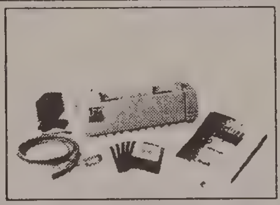

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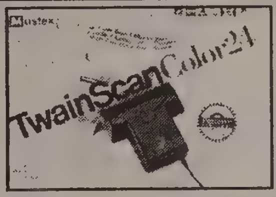

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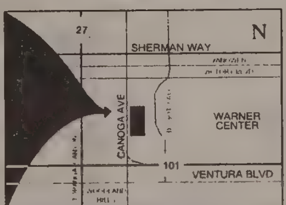

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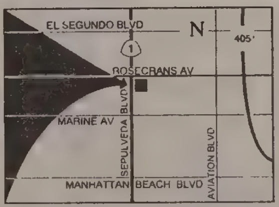

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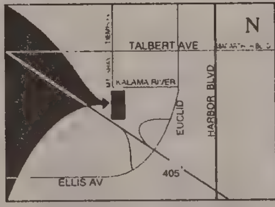

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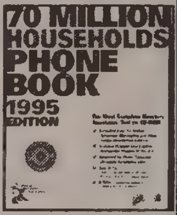

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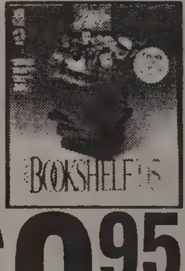

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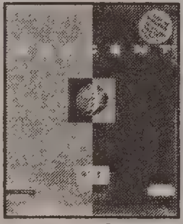

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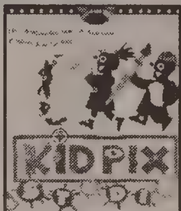

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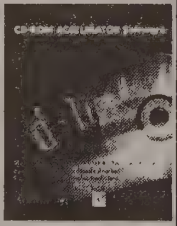

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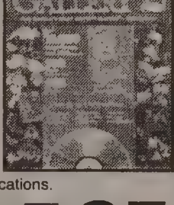

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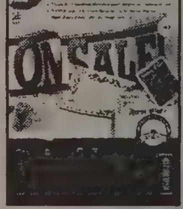

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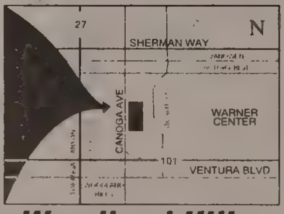

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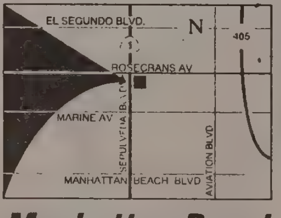

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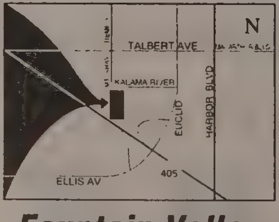

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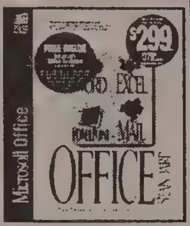

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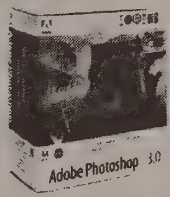

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***Receive a FREE copy of NetCruiser™ for Windows™ Internet Software with any other software purchase! NetCruiser™ available separately for a limited time for only $4.95.**

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FileMaker Pro 2.1 For Windows™

CLARIS

New FileMaker Pro 2.1 For Windows is the one database that has the power and sophistication to effortlessly handle all your business needs. Whether you are a first time or experienced database user, you will be productive in minutes with FileMaker Pro 2.1.

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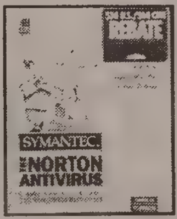
NORTON ANTIVIRUS 3.0



The Norton AntiVirus detects and eradicates every known virus, every class of virus, every type of viral activity- even the new class of Polymorphic viruses, including the Mutation Engine viruses. It is backed by the Norton Labs, the industry's most advanced antivirus research facility.

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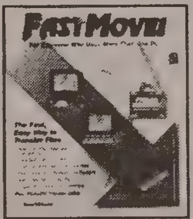
FastMove 1.0 For Windows™

TouchStone Software Corporation



The Fast Easy Way To Transfer Files!

Features:

- Shows you which files need to be updated
- Scans each file for viruses
- Synchronizes PCs with up-to-date files
- Simple interface for problem-free transfers
- Selects just the files you want
- Includes Windows and DOS versions
- PLUS: PC-to-PC Transfer Cable

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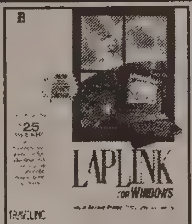
LAPLINK For Windows™

TRAVELING SOFTWARE



The best file transfer software is even better with this new windows™ version - simple and reliable. Features include:

- Full-featured remote control and file transfer.
- SpeedSync™ for the fastest modem file transfer
- Serial and parallel cables included.

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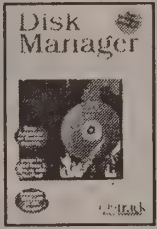
The Original Hard Disk Installation Utility for DOS



Features:

- Supports Drives up to 8 Gigabytes in capacity with 2 gigabytes per partition
- Easy, Advanced, or Custom Drive Installation
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- Fast Preparation for IDE/SCSI Drives
- Includes a FastDisk Driver that allows you Windows™ 32-bit Access
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- Optimize Drive Performance
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CAD Symbols

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IMSI CAD Symbols is a unique collection of true-to-scale, ready-to-use CADsymbols on CD-ROM. Use them with any CAD software that can read standard .DXF or . DWG formats. Choose from 29 categories within 6 industry specific groupings. Use the symbols as they are, or modify them for your specific needs.

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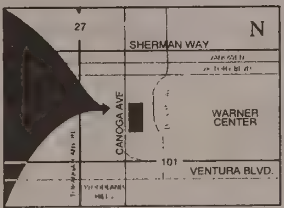

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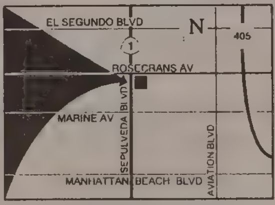

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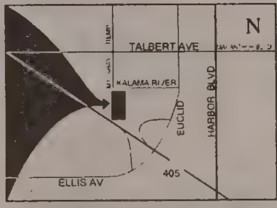

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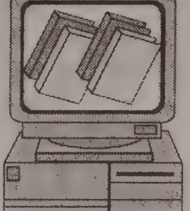
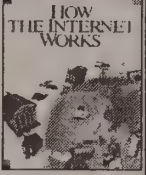


Computer Books

HOW THE INTERNET WORKS



- Get ready for the ride of your life–a colorful, captivating journey through the Internet, the world's most massive, most diverse cyber community. How the Internet Works blends lively graphics and lucid text in an award-winning format.

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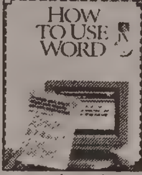

How to Use Word is clearly presented and beautifully illustrated on two facing pages. Simple steps and accompanying pictures guide you smoothly to success with Word's basic features in minutes. Plus much more.

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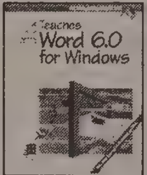
PCLL TEACHES WORD 6.0 FOR WINDOWS



PC Learning Labs, the world leader in computer instruction in the classroom, has created an interactive book/disk learning tool that you can use to learn World 6.0 for windows at your own pace.

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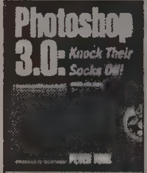
PHOTOSHOP 3.0 KNOCK THEIR SOCKS OFF!



Concentrating on Photoshop layers, masks, channel calculations, and custom filters–including the KPT set of plug-in filters–this ground-breaking book guides you visually through the most popular commercial image effects.

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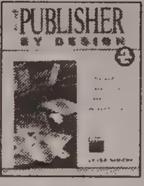
Microsoft® PUBLISHER BY DESIGN V2



Throughout Microsoft Publisher By Design, you'll find expert advice:

- Performance Tips to help you do a task faster and smarter.
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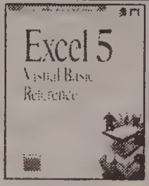

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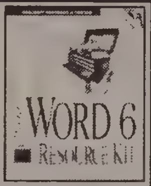

Customizable self-paced training exercises, 250 tips and tricks in both Windows and Macintosh formats, The Word 6 for Windows Converter, and a sample installation file that makes custom installations easy.

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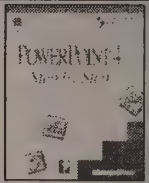

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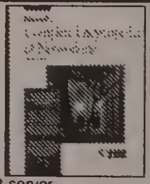

- By far the most comprehensive networking reference available.
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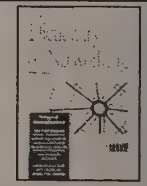

Over 1,700 networking concepts, technical terms, protocols, chips, standards, versions, product names, company names, commands, acronyms, abbreviations, slang, buzzwords, and jargon.

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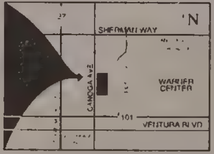

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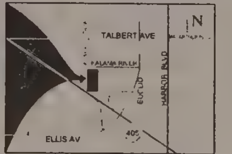

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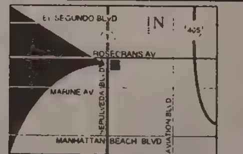

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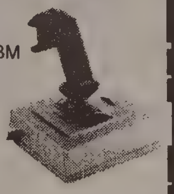

- ULTIMATE CONTROL: Has total 360 degree cursor control
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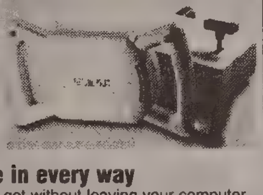

High Performance Airplane Yoke is a true professional flight Yoke in every way

It's as close to reality as you can get without leaving your computer. Features include • Super-Realistic Flight Yoke designed for quick response • Ultra-precise firebuttons, throttle, and trim controls • Advanced aileron and elevator trim controls add realism - you can hear and feel your shots.

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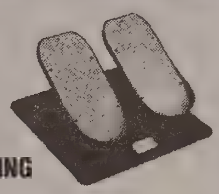

FOR AN AUTHENTIC DRIVING AND FLYING EXPERIENCE

- Dual Modes
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THRUSTMASTER FORMULA T1

- Connects to standard game port
- Enhances any driving game to professional feel

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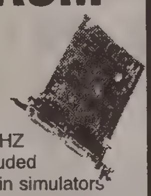
Thrustmaster ACM™ Game Card



Features Include:

- Dual Ports
- Speed adjustable - from 4 MHz to 66 MHZ
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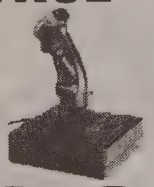

Replica of the F-4 flightstick
Multi-function
IBM Compatible

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SKYMASTER FLIGHT STICK

- IBM PC, XT, AT, 286, 386, 486 and P5 Compatible
- 4 Fire Buttons
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- Control Mechanism
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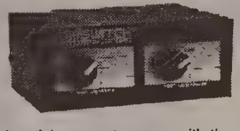
JOYSWITCH
Multiport Joystick Data Switch



Now you can jump from joystick to joystick, game to game with the speed and ease of turning a switch. No more reaching behind your computer to swap joystick cables on the game port. With the Joyswitch, you will have immediate access to all your joysticks through a simple but effective Joystick Management system™

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PC GAMEPAD

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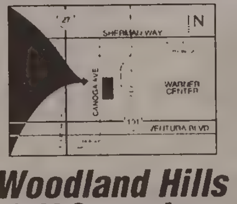

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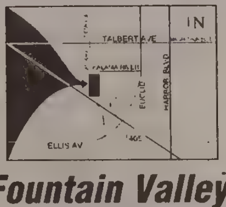

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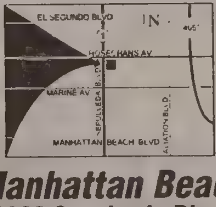

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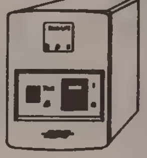

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Alarm test switch
Built in surge protector
Power Supply • 4 Outlet
EMI/RFI filtering
10 Minutes Back-Up At 600VA
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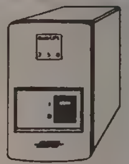

Modified Sine wave output safer for all equipment types than square wave
- 280 Volt/AMP Backup Power Supply
- 2 Outlet
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- 10 Minutes Back-Up at 280VA

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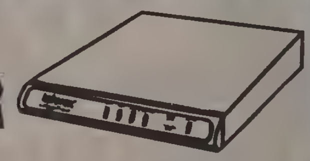

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Includes 5 Year $5,000
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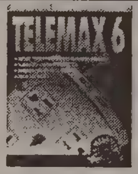
Surge Protection for Computers with Modems and Fax Machines



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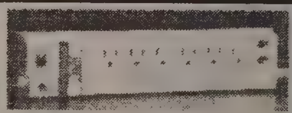

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7 Outlet • 360 Joules
Surge Protection
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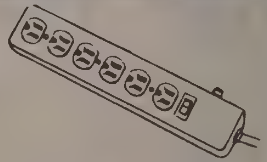
$24.99

6-OUTLET BASIC SURGE PROTECTOR



- Clamping ResponseTime: <1 Nanosecond
- Energy Dissipation: 60 Joules

#1619399

$3.99

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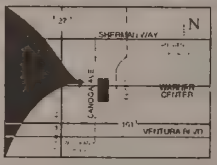

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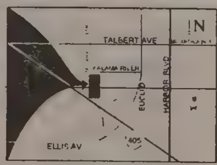

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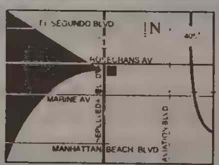

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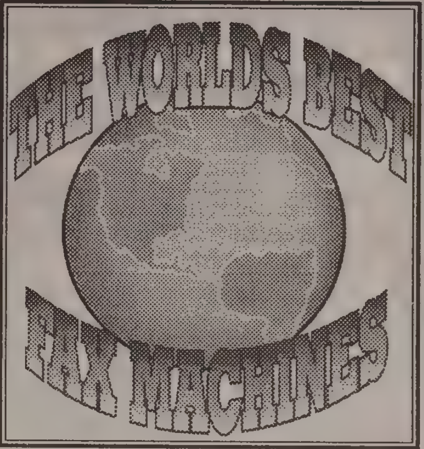
THE WORLD'S BEST FAX MACHINES



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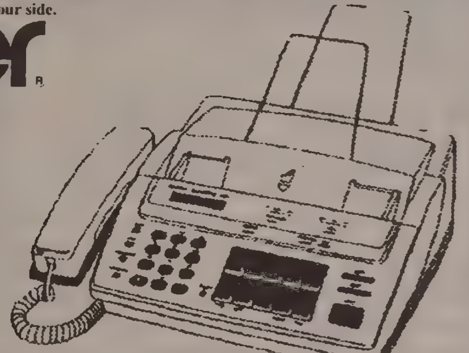


THERMA PLUS PAPER
IT FEELS LIKE PLAIN PAPER

ANTI-CURL PAPER CUTTER FAX MACHINE
WITH 15 PAGE DOCUMENT FEEDER

ACS ANTI-CURL SYSTEM™

missing link

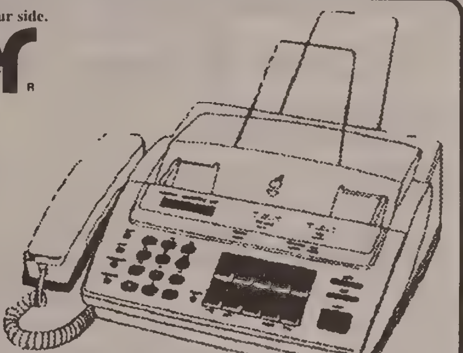
Brother presents an affordable fax machine that gives you the features you want at a low, low price. The anti-curl system with therma plus paper feels like plain paper and won't curl up at the edges. Other features include electronic cover page, a help key, a 15 page document feeder and is ready for use with Brother's missing link system.

$249

Model FAX-625
#2058227

brother

We're at your side.



THERMA PLUS PAPER
IT FEELS LIKE PLAIN PAPER

PAPER CUTTER FAX MACHINE
WITH 14,400 MODEM AND 256K MEMORY

ACS ANTI-CURL SYSTEM™

missing link

Using Brother's ThermaPlus paper along with the anti-curl system makes the output from this fax machine feel just like plain paper. The 256K of memory stores up to 10 pages for quick scan, broadcasting or out of paper fax reception. Other features include a 14,400 modem, a 15 page document feeder and is ready for use with Brother's missing link system.

$299

Model FAX-725
#2058249

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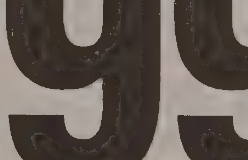

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SONY **Magic Link**

PERSONAL INTELLIGENT COMMUNICATOR

A revolutionary concept in electronics which integrates the most useful features of personal computers, telephones and pagers in a handheld, portable unit. By incorporating Magic Cap™ communicating applications platform and Telescript™ technology, the Magic Link™Communicator represents a leap forward in the use of technology to enhance your lifestyle. Features include integrated Fax/Data Modem built-in mic/speaker, Pocket Quicken, PenCell Spreadsheet, Spell Finder, Datebook, Notebook, Calculator, File Cabinet, mind game software, and much more. Magic Link™ will also facilitate various modes of communication including Phone, E-mail, Fax, Pager and Infrared, as well as supporting AT&T PersonaLink℠ Services and America Online service.

$599

Model PIC-1000
#1959305

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PERSONAL DIGITAL ASSISTANT

DOS COMPATIBLE WITH
GEOS OPERATING SYSTEM

Now an amazing device, no bigger than a small paperback book, can store your hand written notes and sketches, arrange your calendar, keep track of hundreds of phone numbers and addresses, help organize your personal finances, perform complex mathematical calculations, give you easy access to electronic mail and a host of sophisticated on-line information services. With up to 100 hours of operation from 3AA Alkaline batteries, and S-RAM or Flash card compatibility, the versatility and performance of this PDA is unmatched at only...

$399

MODEL Z-7000
#1815308

PALMTOP COMPUTERS

PSION SERIES 3

POCKET SIZED 512K COMPUTER

WITH BUILT-IN SPREADSHEETS

Psion has redefined the state of the art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equipped with features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer,world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

$399

Model SERIES 3A
#1843567

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1MB PALMTOP COMPUTER

WITH 80x25 FULL SCREEN MS-DOS 5.0 & BUILT-IN POCKET QUICKEN

The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools. The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read ! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only...

$498.99

Model HP-200LX
#1941670

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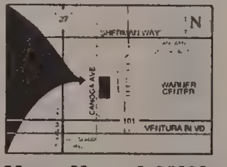

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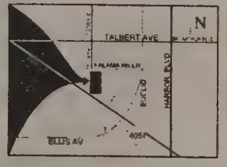

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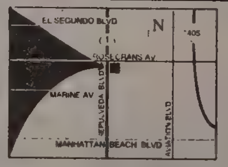

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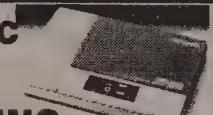
ANSWERING MACHINES

Panasonic



ANSWERING MACHINE

Answering System with Auto-Logic Operation, Tone Remote Control, Digital Display, Message Memo Recording and remote turn on, Auto-Logic Operation automatically rewinds, plays messages, stops at the last message and resets itself at the touch of one button.

$44.99

Model KX-T1000
#1498194

Panasonic

TWO LINE ANSWERING MACHINE
WITH VOICE TIME/DAY STAMP

Perfect for the home or office, this Panasonic two line answering machine offers voice time/day stamp, voice prompts, 2 variable greeting messages, room monitoring, message alert, call screening, auto interrupt, toll saver, and more. Now just…

$129.95

Model KX-T5300
#1768084

Panasonic

ALL DIGITAL 4 MAILBOX ANSWERING SYSTEM
W/SPEAKERPHONE & VOICE TIME/DAY STAMP

Panasonic's fully featured answering system comes equipped with 30 minute storage capacity, voice time/day stamp, speakerphone, voice menu, 4 personal mailboxes with security, lcd display, message scan, programmable alarm, message transfer, 2-way record, selective message delete, message skip/repeat, auto disconnect, auto redial, 10 number memory, and much more! An invaluable addition to any home or office at just…

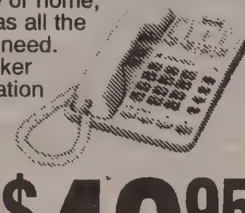
$199.95

Model KX-T2880
#1841989

OFFICE PHONES

Panasonic

SPEAKERPHONE



For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49.95

Model KX-T2315
#1530100

Panasonic

TWO LINE SPEAKERPHONE

A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, seperate ring switches for each line, and a local mode function. Now only…

$68.95

Model KX-T3120
#1510676

Panasonic

TWO LINE SPEAKERPHONE
WITH LCD DISPLAY

From Panasonic comes this fully featured 2-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only…

$89.95

Model KX-T3175
#1745122

CORDLESS PHONES

Panasonic

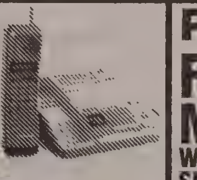
30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE

This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

$199.95

Model KX-T9500
#1948839

Panasonic



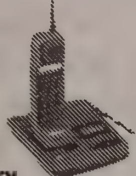
10 CHANNEL CORDLESS SPEAKERPHONE
WITH DUAL MICROCASSETTE

This top of the line cordless dual microcassette answering system with sound charger technology delivers sound so clear, you will hardly believe your ears! Some of the features included are: 2-way paging, intercom, auto security system, message alert, 2-way and memo recording just to name a few. Now only…

$199.95

MODEL KX-T4400
#1735370

Panasonic



10 CHANNEL CORDLESS PHONE
WITH 30 MINUTE CAPACITY ALL DIGITAL ANSWERING MACHINE

Panasonic has combined a premium performance 10 channel cordless phone with features that include LCD display on handset, 21 day battery stand by, intercom, 2-way paging, 10 number speed dialer and a 30 minute all digital answering machine that offers 4 mail boxes, voice time/day stamp, message scan (plays first 5 second of each ICM), message transfer, selective message delete, 2-way recording, and much more. Now only…

$279

Model KX-T4600
#1841938

FAX MACHINES

Panasonic

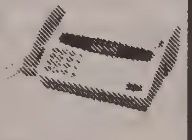
FAX MACHINE
WITH PAPER CUTTER AND SPEAKERPHONE

Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just…

$279

Model KX-F550
#1944271

Panasonic



FAX MACHINE
WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE

Panasonic line of fully featured fax machines includes this compact model which with 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just…

$345

Model KX-F750
#1944282

Panasonic

PLAIN PAPER FAX MACHINE
WITH 20 PAGE MEMORY

The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette, adjustable letter /legal tray, 32 level halftones, polling, activity reporting, 20 page document feeder, broadcasting to 128 locations, fax transfer, enlargement and reduction copier functions, fax/tel switch, 28-station one-touch dialer, 100-station speed dialer, telephone directory with alpha-search.

$598

Model KX-F3000
#1850626

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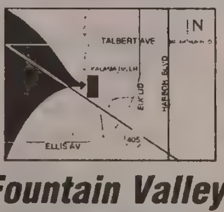

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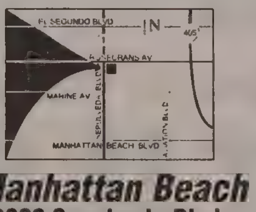

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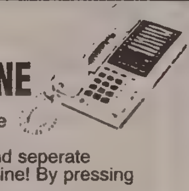


SPEAKERPHONE

This ingenious telephone uses dual ringers with distinct ringer sounds and seperate ringer controls for each line! By pressing the conference button you will be able to conduct a three way conversation. An excellent value at only...

$39.95

Model 2-9320
#1674277

AT&T

SPEAKERPHONE

AT&T's popular speakerphone comes equipped with 12 number memory, redial, ringer adjust, mute, flash, and receiver volume control (a helpful feature for those who are hearing impaired or in a noisy environment). Now just..

$49.95

Model 706
#1781315

AT&T

SPEAKERPHONE

With features like hands-free speakerphone, 32 number memory, hold, receiver and speakerphone volume control, last number redial, flash, ringer control, programmable pause, mute, just to name a few, this AT&T speakerphone will be an excellent addition to any home or office at only...

$49.99

Model 825
#1955046

Panasonic

2-LINE SPEAKERPHONE

From Panasonic comes this fully featured 2-line speakerphone with 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$79.95

MODEL KX-T3165
#1745111

COPIERS

Canon

COMPACT COPIER

The size of Canon's compact personal copier makes it perfect for the home or office where space is at a premium. Some of the convenient features of this model includes the ability to copy on both sides of copy sheets, exposure control, and more. Now just...

$279

MODEL PC-300
#2022798

SHARP

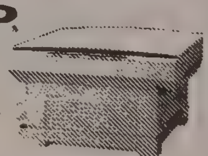
LETTER/ LEGAL PERSONAL COPIER

Compact and lightweight, this Sharp copier weighs only 17.5 lbs. and fits virtually anywhere! Yet, it even lets users make multiple copies up to legal size (81/2" x 14") originals onto a wide range of papers from 81/2" to 4" x 6", allowing an expanded range of applications. Other features include auto exposure, 50 sheet paper tray capacity, auto start function and much more! An excellent value at just.....

$399

MODEL Z-27
#1892837

SHARP



LETTER/ LEGAL COPIER

WITH STATIONARY PLATEN

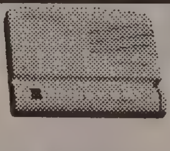
This durable Sharp copier utilizes a stationary platen, a space-saving feature that eliminates the possibility of the copier bumping into objects while in operation. The variable zoom ratio setting adjusts between 70% and 124% in 1% increments giving you more copying flexibility and versatility. Other features include large capacity 250 sheet tray, continuous copy (up to max. 50), auto start, and letter/legal capacity. An excellent value at...

$679

MODEL Z-85
#1903740

ALL DIGITAL ANSWERING MACHINES

CONAIR



ALL DIGITAL ANSWERING MACHINE

Conairs fully digital answering machine allows you to avoid the hassle of constantly rewinding and fast forwarding tapes typically found in answering machines, within seconds you can skip forward of backwards to the message of your choice! Features include tone remote control, ring select, flashing message counter, call screening, auto disconnect, vox, and much more, Now just...

$34.99

Model TAD-1200
#1978539

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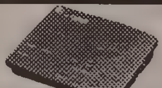
GE. We bring good things to life



ALL DIGITAL ANSWERING MACHINE

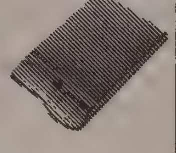
WITH THREE MAIL BOXES

With three mailboxes to choose from, members of the household can have messages stored for them in their own mailbox! The all digital capability eliminates the need for moving parts and allows for instant playback of incoming messages-no need to wait for a tape to rewind or fast forward! Other features include voice time/day stamp, two outgoing messages, digital counter, selective message erase and much more for only...

$59.95

Model
2-9876
#1839261

SONY.



ALL DIGITAL ANSWERING MACHINE

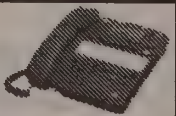
WITH TIME/DAY STAMP

This innovative Sony all digital answering machine features a slim space saving design which allows a phone to be placed on top of it. Other features include variable-speed playback, voice time-day stamp, digital message counter, audiblle message alert, and more. Now just...

$99.95

Model TAM-2000
#1949793

AT&T



ALL DIGITAL ANSWERING SYSTEM SPEAKERPHONE

WITH 2-LINES, 4 VOICE MAILBOXES AND 26-MINUTE TOTAL CAPACITY

The individual voice mailbox system, voice/time stamp, handset play back and record, display screen indicating time, day, and number dialed, and 2-way call recording.

$199.99

Model 1872 #1954997

900 MHz CORDLESS PHONES

VTECH

DIGITAL 900MHz CORDLESS PHONE

From VTech a leader in 900MHz cordless phone technology come this feature packed unit with 10 channel selection, a digital voice encryption system, out-of-range indicator, four programmable ringer types, one-way page, 10 number memory, mute, flash, hold, and last number redial all for the incredible price of only....

$149.99

MODEL 900 DL
#1818666

muratec

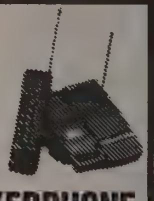
60 CHANNEL ULTRA LONG RANGE 900MHz CORDLESS PHONE

Compact in design, but powerful in performance, this 60 channel, long range 900MHz phone offers 10 number speed dialer, last number redial, flash, intercom/ paging, mute, and much more. Now just...

$199.95

Model CP-900
#1986611

AT&T



DIGITAL 900MHz DUAL KEYPAD CORDLESS SPEAKERPHONE

Features include 10 number memory, mute, hold, flash, last number redial, one-way paging, out-of-range-indicator, digital voice encryption, and much more for only...

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Model 9120
#1853261

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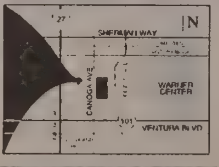

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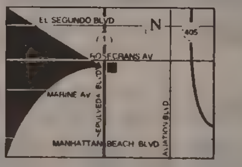

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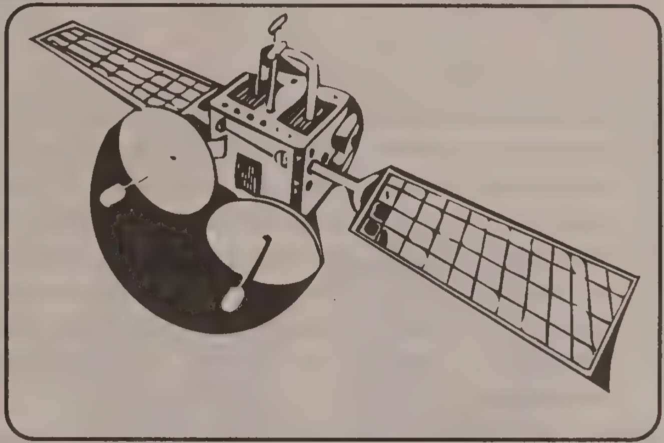

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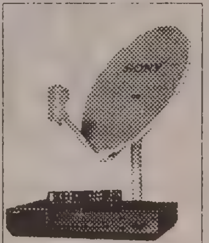

Sony's new DSS system is compatible with more than 175 channels of DirecTV and USSB programming. CD quality sound and over 400 lines of digital video resolution work together to give and outstanding home theatre experience. Other features include Sony's signalseeker LED for easy install and a universal remote.
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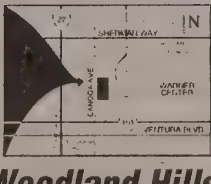

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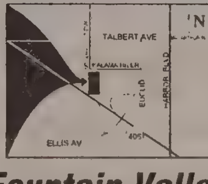

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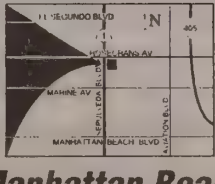

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Product Spotlight

Updates

Compaq's "Cool Cash" Rebate Promotion offers cash rebates to consumers who purchase select models of the all-in-one Presario 500 Series multimedia PCs through September 4, 1995. Compaq Computer Corp., PO Box 692000, Houston, TX 77269-2000.

DayStar released **PhotoMatic 2.0**. This feature-rich Photoshop batch processing utility—which originally sold for $199—will now be distributed as freeware. DayStar Digital Corp., 5556 Atlanta Hwy., Flowery Branch, GA 30542. (404)967-2077. WWW: http://www.daystar.com/

Farallon Computing announced that it has **enhanced its EtherWave Mac/PowerBook Adapter** by adding support for Apple Desktop Bus power to allow increased portability for mobile users. Farallon Computing, Inc., 2470 Mariner Sq. Loop, Alameda, CA 94501. (510)814-5100.

Fractal Design released **Fractal Design Painter 3.1**. Owners of Paint 3 can upgrade for free by downloading a special software patch from AOL and CompuServe. It can also be ordered directly from Fractal Design for $12.95. Fractal Design Corp. 1-800-297-COOL.

GreenSoft introduced **GreenSoft for Windows 1.2**, an upgrade to its complete personal paperless office application for small office/home office professionals. GreenSoft Corp., 4880 Santa Rosa Rd., Suite 170, Camarillo, CA 93012. 1-800-588-DESK.

QMS introduced **CrownAdmin 2.0**, a software utility that has a graphical user interface so users can easily manage and monitor QMS Crown network printers on virtually any platform. QMS, Inc., One Magnum Pass, Mobile, AL 36618. 1-800-523-2696. WWW: http://www.qms.com/

SoftQuad announced **HoTMetal PRO 2.0**. Users of v1.0 can upgrade for a limited time for just $59. SoftQuad, PO Box 32, Norton, VT 05917. 1-800-360-8454.

SPRY is shipping **Internet In A Box 2.0**. A free upgrade is available to anyone who purchased version 1.0 after April 10, 1995. For customers who purchased the product prior to April 10, there is a $39.95 upgrade charge. SPRY, CompuServe Internet Division. 1-800-777-9638. Email: info@spry.com. WWW: http://www.spry.com/

Xerox announced the availability of **TextBridge Professional Edition 3.0 for Windows**, its OCR software. Xerox Crop., Desktop Document Systems, 3400 Hillview Ave., Palo Alto, CA 94304. 1-800-248-6550. ext. 3.

Product Announcements

CD-ROM

First Person: Mumia Abu-Jamal—Live from Death Row

The next CD-ROM in Voyager's acclaimed First Person series, Mumia Abu-Jamal—Live from Death Row, includes videotaped interviews with Mumia Abu-Jamal, the text of his book, *Live from Death Row* (published by Addison Wesley), and audio commentaries by Abu-Jamal, some of which have already aired on NPR radio stations throughout the country. An award winning journalist, Mumia Abu-Jamal is a former president of the Philadelphia chapter of the Association of Black Journalists, a former member of the Black Panther Party, and, supporter of the MOVE organization. He has been on death row for thirteen years, accused of the murder of a Philadelphia policeman. With his execution set for August 17, 1995, organizations including Amnesty International, Human Rights Watch, The National Black Police Association, and Pen International have joined in a call for a new trial. ($29.95, Macintosh and Windows) The Voyager Co., 578 Broadway, Suite 406, New York, NY 10012. (212)431-5199.

Star Trek: The Next Generation "A Final Unity"

This PC CD-ROM takes the *Star Trek* genre to a new level of interactivity, utilizing lifelike 3-D animation, authentic digitized sound effects and music, and the voices of the seven principal actors in the popular series. Each actor individually recorded more than an hour of dialogue for the

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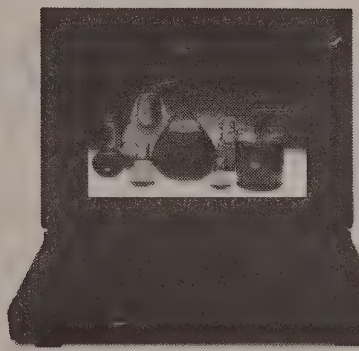

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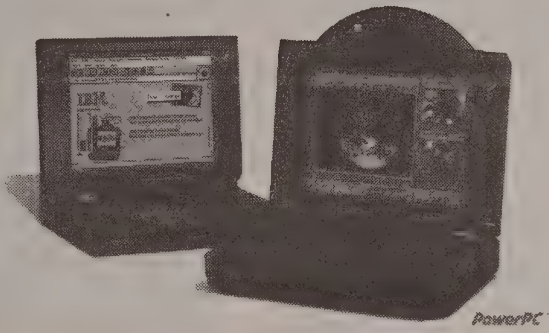

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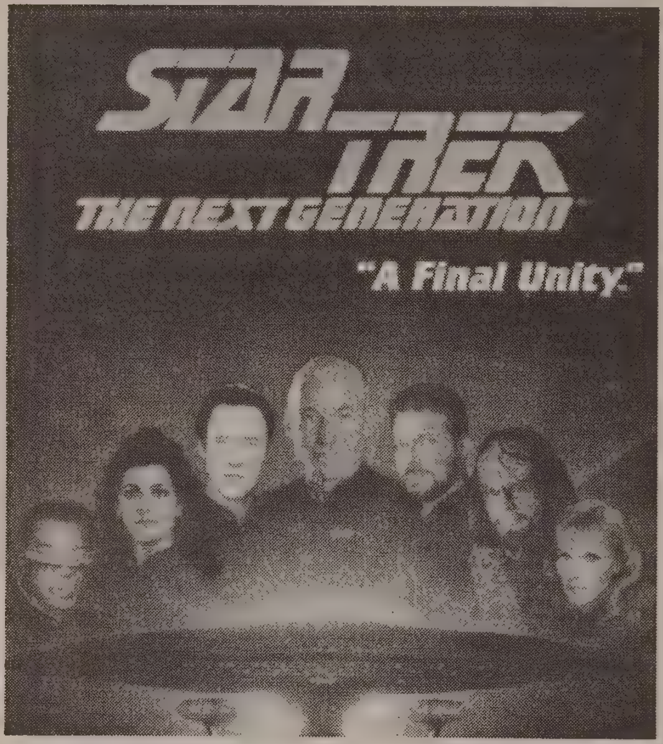
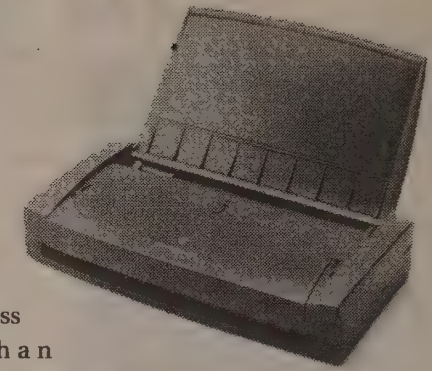
New Products *continued...*



game, contributing to the multitude of plot variations. Players embark on missions for the Federation and find themselves caught up in an unfolding mystery with the crew of the Spaceship Enterprise. Within this intergalactic adventure, the player must maneuver the Enterprise within a 3-D tactical space, beam down Away Teams to investigate alien planets, and use the vast resources of the *U.S.S. Enterprise* to meet the challenges that await. Spectrum HoloByte, Inc., 2490 Mariner Sq. Loop, Alameda, CA 94501. (510)522-3584.

Macintosh Hardware

Color StyleWriter 2200



Weighing just over 3 lbs. and measuring less than 12" across by 2.2" high, the Color StyleWriter 2200 mirrors the high-quality color performance of its siblings in Apple's color inkjet line and fits in any standard briefcase. Key features include "Desktop Printing," "2-/4-Up Printing," and "Watermarks," which lets users place words such as "draft" or "confidential" on the background of a page. It ships with a color cartridge that offers 360 x 360 dpi color and true black printing on the same page. The printer also offers sixty-four TrueType fonts, matching the font set included with Apple LaserWriter printers and is compatible with all 68020 or better Macintosh computers. ($419) Apple Computer, Inc. 1-800-538-9696.

continued on page 225

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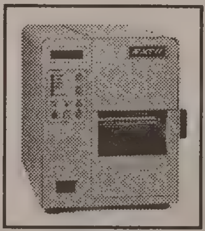

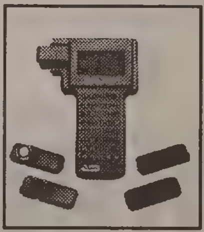

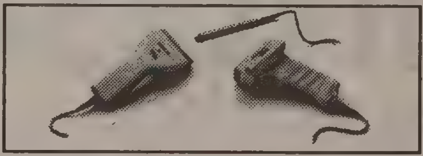

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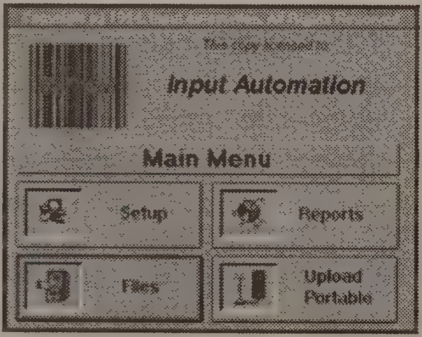

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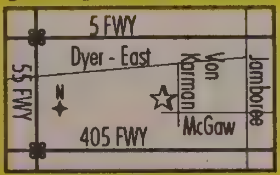

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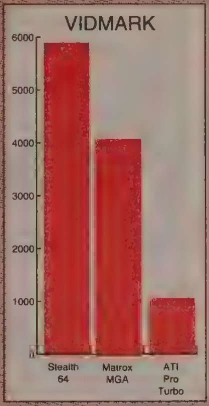

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MultiMedia & BEYOND

For the latest **CD-ROM** and software news & reviews, see our **Product Spotlight** section starting on **page 156**

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- Blue Screen VR "Virtual Sets" For Live Actors 163
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Blue Screen VR

"Virtual Sets" For Live Actors

The building of interactive virtual reality environments is evolving, piece by piece, with elements from "traditional" film and television special effects and new computer graphics technologies. Analog and digital combinations of the blue screen process are providing "virtual visual glue" for desktop VR and location-based entertainment.

The blue screen process, called Chroma Key in television, and often using the Ultimatte studio standards, allows the producer to insert different backgrounds in a live action scene from photos, film, drawings, paintings, computer graphics, and even motion footage that may have originated in vastly different scales. By the use of blue and red filters in post production, or live on television, male and female mattes are "married" in the final image. This explains how the TV weatherperson, who gesticulates in front of a blank blue screen in the studio, can appear on the news pointing to animated thunderstorms on a map of Kansas.

ELECTROGIG image "Boat-plane," created in GIG3DGO,® © 1995 Wooden & Filling.

The blue screen principle is being carried on to support flexible and sophisticated digital multimedia production which is setting the stage for ever more virtual connections.

REALITY TRACKING: THE BLUE SCREEN MACHINE

ELECTROGIG's Reality Tracking system allows live actors to move freely in a 3-D modeled virtual environment or "virtual set" that can receive live video and even incorporate "vactors"—performance animation virtual actors and props—to interact with on-camera talent. It allows pans, tilts, and zooms without any drifting of alignment between foreground live action and multiple computer-generated backgrounds.

The "virtual set" may take up gigabytes on the hard disk, but it needs no backgrounds hung in the flies or flats warehoused in backstage bays, nor stagehands to set up and break down.

ELECTROGIG's core technology is 3-D animation modeling and rendering, and the Reality Tracking system has been designed to be open-ended and fit seamlessly into the environment that broadcasters are used to. Just about all the major 3-D animation and CAD packages can be utilized with the system. ELECTROGIG has configured the Reality Tracking package as a turnkey system driven by a Silicon Graphics Onyx RealityEngine 2 graphics super-

BY TONY REVEAUX

BLUE SCREEN VR *continued...*

computer, which carries a price tag of about $600,000. That same machine is also used by broadcasters for video servers, Video on Demand (VOD), and in graphics installations such as Discrete Logic's Flame.

The Lightscape Visualization System from Lightscape Technologies is also a key component of the Reality Tracking system. You can go from wireframe to flat shaded to very photorealistic rendered scenes. Its proprietary radiosity technique can calculate direct illumination and indirect, diffuse interreflections between surfaces. This gives the designer the ability to provide more realism on the set for "virtual" light sources, and to emulate the kinds of light scattering and shadow detail for a virtual prop or scenic element that the real thing would contribute to the scene. For SGIs, the Lightscape packages sell for $12–$15,000.

Says Chris Dierdorff, marketing product manager, "Our eyes are extremely sensitive to how the foreground moves in relation to the background, and can pick up even the most subtle differences. With the advent of computers, we're not only able to track the relative position of the image-taking camera itself, so we know its position in 3-D space, we're also able to use very fast graphics computers to put out a three-dimensional background in real time that is fairly believable. We mate these two worlds exactly, so as the real camera moves, the computer moves the virtual world in an identical orientation in six degrees of freedom"

TOWARD A WRAPAROUND VIRTUAL THEATER

Though the early adopters of ELECTROGIG's Reality Tracking are broadcasters, location-based entertainment, feature films, and game developers are beginning to use the systems. As computing power rises from the desktop to match the demands of tracking reality, real, native creativity will conjure up more variations on virtual worlds in all the media.

The next stage of blue screen VR that will fulfill the needs of acting and action out of the blue will be when images of the virtual set's artwork can be projected in the sound stage—even if only in wireframe. While the camera won't see the color-coded images, the actors will. They can play against the surfaces, objects and beings in scale and on location, so that their eyelines will match up with the axes of the actions in the final composites. Much less of their talent will be drained in conjuring up a wall or an alien and can be invested in accurately reacting to it.

Reality Tracking ™ virtual set.

ELECTROGIG's technology has not reached that point yet, but it has brought us much closer to the Virtual Thing than have any previous virtual sets. What awaits us in the years to come will be a blue screen sound stage version of The CAVE, the six-wall media room developed at the Electronic Visualizations Lab of the University of Illinois in Chicago. The same rise in technology that would support virtual media production will also bring us closer to fully immersive virtual worlds that we can explore with all our senses.

RESOURCES:

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PAPER VR

If you've been wondering about virtual reality and have been even more totally confused by watching too many episodes of the hysterically disorganized *VR 5* TV show, here are some books that will help bring your x/y/z axes in focus.

How Virtual Reality Works ($24.95) by Joshua Eddings and edited by Linda Jacobson is in the How It Works series from Ziff-Davis Press; it features a pictorial illustrative format suitable for all ages. In some ways, this book's conceptual and thematic diagrams and illustrations may serve as the most helpful to understand VR, since so much of this industry is still in the developmental stage. It covers a quick history of VR, hardware and software, professional applications, and recreational VR. The chapters on engaging the senses and degrees of experience really get to the core of VR, since these are the goals that are yet to be fully met.

Francis Hamit's *Virtual Reality and the Exploration of Cyberspace* (SAMS, $26.95) is a very thorough overview and guide to what VR is, and how to get hold of those parts that are grabbable today. It covers the major developers and developments of VR, and many applications, both theoretical and real-world. As a reference, it provides lists of many resources to use and learn more about VR. The book comes with a DOS floppy and a pair of 3-D glasses to view the demos of "Fly the Grand Canyon," SuperScape, and five Virtual Reality Studio demos. Plus, you get DModem, communications software for accessing DIASPAR, the Virtual Reality Network.

Entertainment in the Cyber Zone by Chris McGowan and Jim McCullaugh (Random House, $19.00) is an excellent guide to software that qualifies as multimedia entertainment. As well as reviews and sidebars, it has sections on game history, CD formats, expanded movies, and electronic books.

And speaking of cyber, here is the Source. *Cyber Source*, that is. Edited by Frederick E. Davis, this 420-page tome covers just about everything computer-wise that you'd be interested in knowing about or trying out. Alas, there is no index, but you'll info-surf through the massive sections titled Learning, Real World, Fun, Self, and Community, finding troves of candid reviews, essays, and spicy sidebars on hardware, software, and stuff. ■

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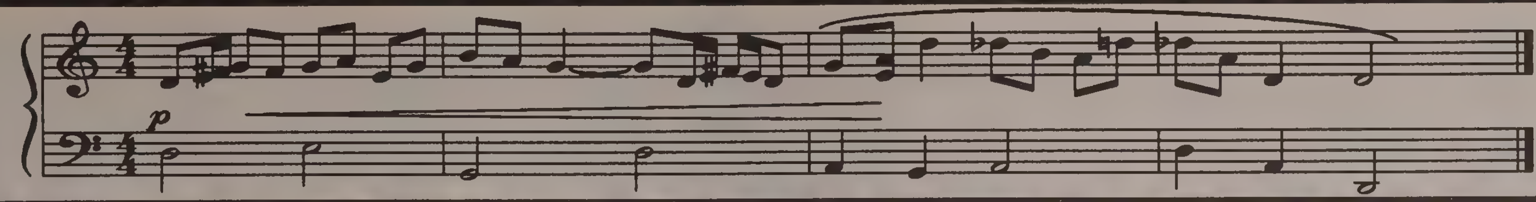

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Fresh Toast From NewTek:

What's New With Video Toaster 4.0

BY DOUGLAS J. NAKAKIHARA

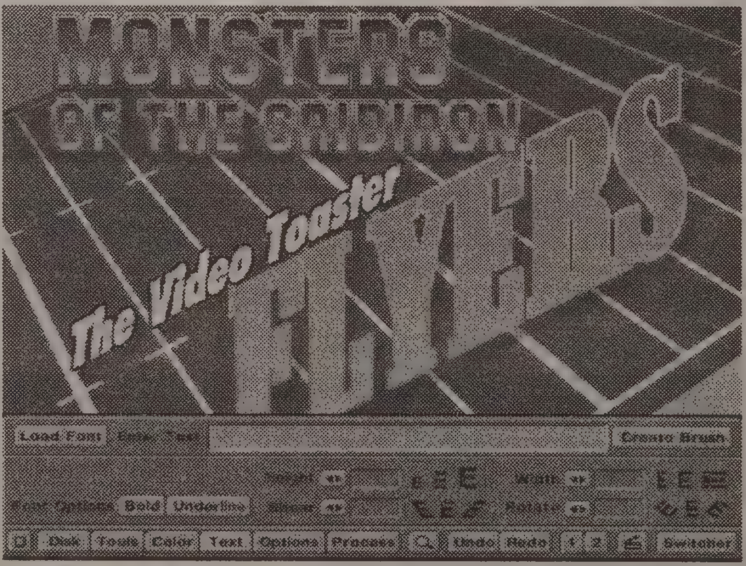
NewTek has gone back to the drawing board and totally revamped the Toaster software. The change was necessary to accommodate integration of NewTek's nonlinear editor, the Flyer.

I'm actually reviewing the pre-release "3.9" Flyer software without a Flyer or manual. Not surprisingly, there were some hitches and crashes that should be worked out in the final version, which should be out as you read this; it was due for mid-July release. As of now, LightWave 3D is still at v3.5, but 4.0 should coincide with the final Toaster 4.0 release. (I've been told that this stuff wasn't meant to be run without a Flyer, but hey, for my readers, I'll chance it.)

PROGRAMMABLE SWITCHER

Previously, operating the Toaster was a real-time endeavor. Video source, Framestore images, effects, etc., all had to be initiated manually.

Now, although the ability to do live switching has been retained, the new software allows you to program the Toaster's activities. These programmed Projects can be saved and loaded independently.



The new interface is very object oriented and works somewhat like the Amiga Workbench in that you can drag icons from window to window. In fact, it is a true file-directory structure, since the icons ("croutons" in Toaster-lingo) represent actual files and directories. You navigate through them much as you would Workbench drawers. If you have ever used Oxxi's VideoStagePro or even Scala MM, you'll feel right at home.

Most icons are a thumbnail of what they represent. This is great for quickly identifying Framestores, CG Pages, etc. A nondescript default icon appears when no thumbnail image exists. These icon-image files are automatically generated when you save files from the Toaster, and most of the installed files come with them. I'm sure there will eventually be some easy way to generate them for a batch of existing files.

Effects are grouped into directories like Animals, Blinds, Dissolves, PagePeel, People, Wipes, etc. This allows you to find them much more quickly than trying to hunt through the old effect banks—a good thing too, since there are supposedly over one hundred new effects!

PROJECTS

A Project is created by dragging icons from the Files window to the Project window. These can be Effects, Framestores, Preview Anims, etc. Basically, you pick and choose what you want to use, and graphically place things in the order you want them executed. For example, you might start by dragging a CG Page to the

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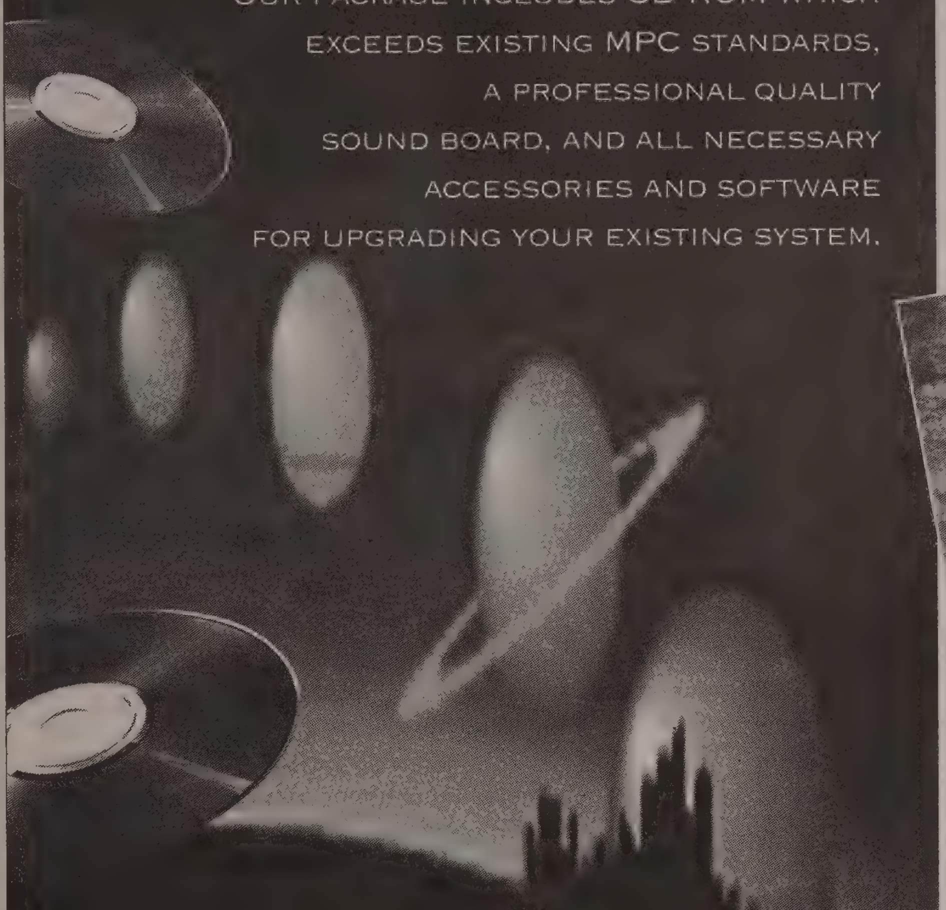

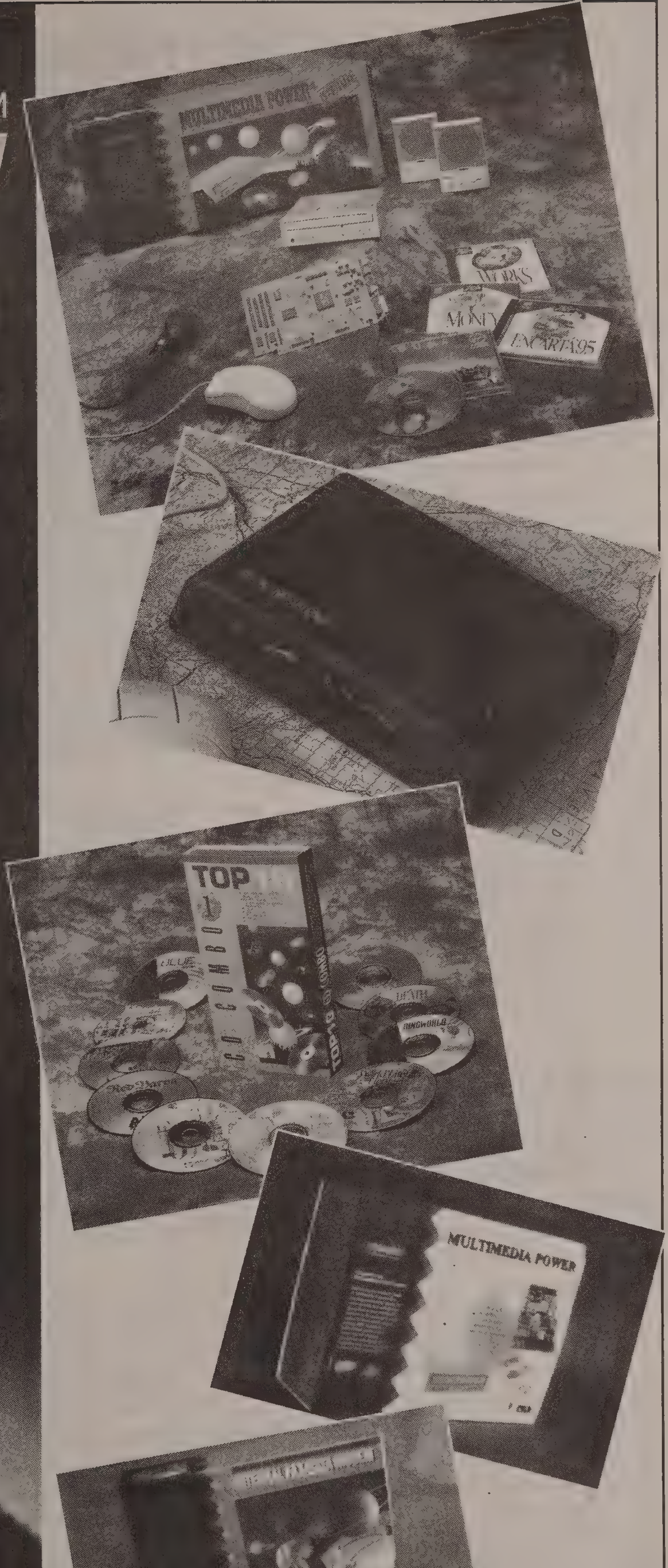
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AMIGA *continued...*

Project window followed by a page-peel transition. These two icons might be followed by a Framestore.

The timing of each event is set by selecting the icon and clicking the Controls gadget. The available options vary depending on the type of icon. The playing order of the events can be changed by simply dragging the icons around. When you are satisfied, just click the Play gadget.

If a problem crops up with your project, you will be notified and the icon where the problem occurred will be selected. This is often a case where the video for an Effect is not long enough to complete the transition and the next Effect comes up before the last one is finished. You cannot double-up Effects, like doing a wipe while a dissolve is occurring.

SLIDESHOWS AND DEMO REELS

The new interface makes it a snap to set up an impressive slideshow of Framestores, CG Pages, and Preview animations while utilizing Toaster Effects for transitions. LightWave users on a budget could create a pretty cool demo reel of their animations even without a Flyer.

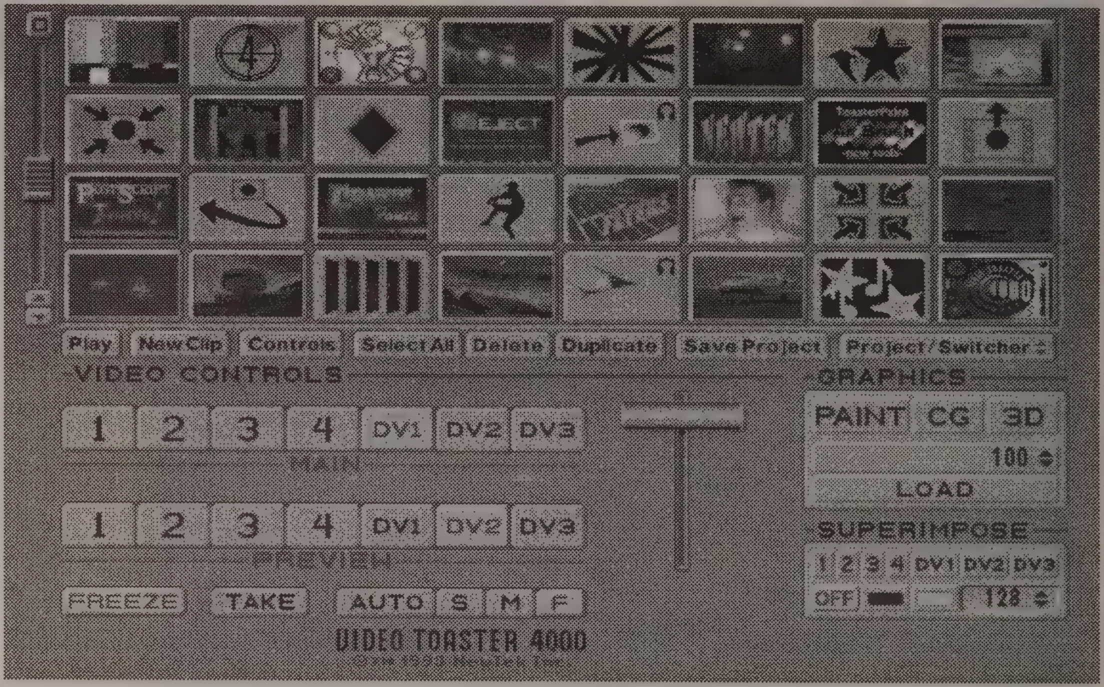
Of course you'll still be under the limitations of Preview anims, which haven't gone away, but the quality of the output would be fantastic!

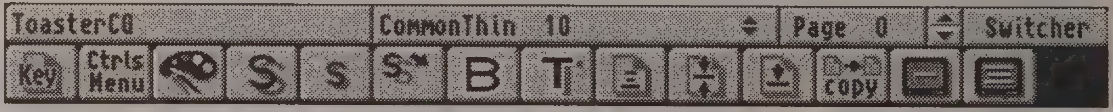
GOT LIVE IF YOU WANT IT

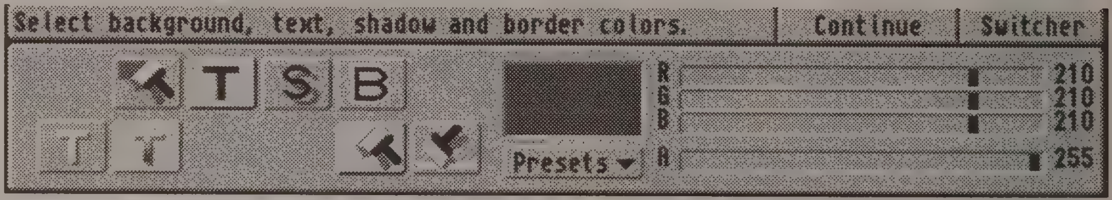
The Switcher can still be operated in real time, and pretty much works the same way it always has; however, you must first set up a Project that contains all of the Effects, Framestores, and other events you want to have access to.

This may cause old-timers some frustration, in that you can't just boot up and start working. It might help to set up a Project that contains all of your favorite Effects. This would give you a good starting point for future Projects and keep you from having to start from scratch every time.

Since everything is accessed from the Project window, you have more immediate access, and don't have to hunt around anymore. For example, just click on a Framestore icon and the image is loaded into one of the digital buffers. No more fumbling through the old pop-up file listing. Framestores can also be stored in multiple subdirectories. Of course, if your Project has a lot of stuff in it, you may have to use the scroll bar.






Select background, text, shadow and border colors.

Gone are the pull-down menus—everything is button-driven.

Using the Views gadget, you specify what is displayed on the main screen. You can have various combinations of the Project, Files, and Switcher windows. LightWave, ToasterPaint, ToasterCG, and ChromaFX are accessed from the Programs gadget.

TOASTERPAINT

ToasterPaint has been totally redone and it's about time, too.

Gone are the pull-down menus; everything is button-driven. The interface has the standard Toaster look, so ToasterPaint now feels like part of the team. But fear not! All of the previous version's functionality has been retained, so old-time users won't feel totally lost.

If you're using an A4000, you'll love the fact that ToasterPaint takes advantage of the AGA chipset using the HAM8 mode full-screen. With 256,000 available colors, it is visually very close to the actual video output.

The new Air Brush tool is very responsive and features beautifully feathered edges. Text handling is improved and you now have control over height, width, shear (slant), and rotation. Text can also be bold and/or an outline. ToasterCG fonts (Toaster, PostScript, etc.) are now supported; it appears that Amiga bitmap fonts are history. Unfortunately, using the text tools in this prerelease version of ToasterPaint sent my computer into la-la land, so I wasn't able to do much with the new features.

You can now freeze frames into either DV buffer from any of the four video inputs directly from ToasterPaint. Either buffer can be subsequently imported into ToasterPaint as before.

The new color palette bar consists of twenty-four color wells, a large current color well, sixteen grayscale wells, and a color range area. Colors can be adjusted using RGB values or an HSV color wheel.

You can also create 4- or 8-bit grayscale alpha

continued on page 204

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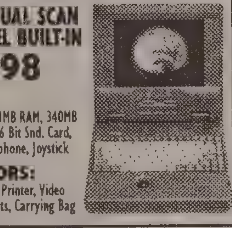

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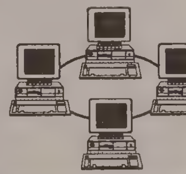

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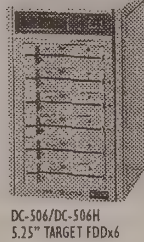

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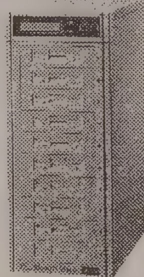

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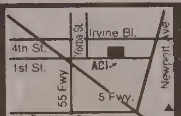

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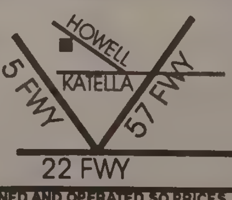

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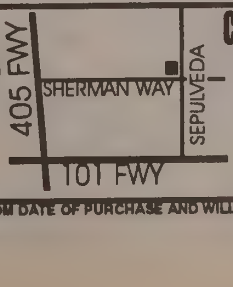

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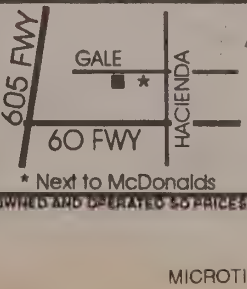

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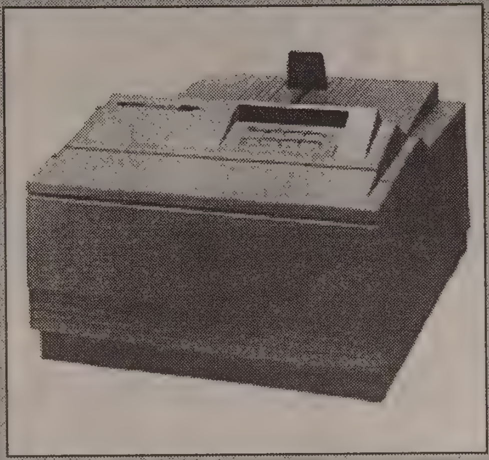

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Resources

Calendar Of Events

Conferences, Shows, Special Events

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August 19 Robert Austin Computer Show. Anaheim Stadium. Robert Austin Corp. Call: 1-800-346-0100.

August 19–20 American Computer Mega Show. CSU, Northridge. American Mega Shows. Call: (818)961-3782.

August 19–20 Computer Show And Sale. Oxnard Community Center. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

August 20 Computer Show And Sale. Fresno Holiday Inn. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

August 23 Live Internet Interview With Raphael Ezekiel On The Racist Mind. On the World Wide Web at *http://www.irsociety.com/roundtable.html* at 7:00 pm. Internet Roundtable Society. Call: (415)327-4386.

August 26 Computer Super Shows. Riverside Convention Center. Super Show Productions. Call: 1-800-459-6105.

August 26–27 Computer Marketplace. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

August 27 Computer Show And Sale. Scottish Rite Center, San Diego. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

August 29–September 1 Windows Solutions Conference And Expo. San Francisco. SOFTBANK Expos. Call: 1-800-488-2883 or *http://www.sbexpos.com* .

August 30 Live Internet Interview With Guy Kawasaki On How To Drive Your Competition Crazy. On the World Wide Web at *http://www.irsociety.com/roundtable.html* at 7:00 pm. Internet Roundtable Society. Call: (415)327-4386.

AUGUST 26–27

Computer Marketplace

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Computer Marketplace is the biggest and the original computer trade show for consumers. Produced by National Productions, Inc. for over 12 years, it takes place in two air conditioned buildings at the Fairplex Expo Center in Pomona. Hundreds of exhibitors demonstrating the latest technology and selling at the lowest prices to be found anywhere. Find complete multimedia systems, notebook computers, modems, CD-ROM drives, printers, scanners, thousands of software titles for kids of all ages, and lots more. Free prize giveaways every hour. Open 10 am to 5 pm, admission is $7. Come by and meet Jeff Levy of KFI Radio's Computer Talk broadcasting live on Sunday. Call 1-800-800-5600 or email CMPlist@aol.com for more info.

SEPTEMBER 18

Hollywood In Cyberspace

PACIFIC DESIGN CENTER, HOLLYWOOD

At this event, executives from every aspect of the entertainment business will converge for an evening of unparalleled exposure to what is happening online. Attendees will see what everyone else is talking about. Key speakers who are online experts will give an overview of what's happening online including a guided tour of the Internet and the World Wide Web. The top cutting-edge companies will offer hands-on demonstrations from 2 to 6 pm and the conference is from 6:30 sharp to 9:30 pm. Admission is $85 in advance, $100 at the door. For more information and to register call (310)288-3425 or email nina@sensational.com .

SEPTEMBER 8

Electronic Village Conference II

CAL POLY, SAN LUIS OBISPO

Electronic Village Conference II will focus on how to incorporate leading-edge telecommunication tools today. It will include hands-on demonstrations of leading-edge or soon-to-be-released products; speakers; and valuable discussions regarding the future of connectivity in education, health, government, business, and more. The conference will be keynoted by Frank Casanova, director of technology evangelism for Apple, and will also include a trade show with thirty-two booths featuring hi-tech businesses. Tickets are $25 and include lunch. For more information contact the San Luis Obispo Chamber of Commerce at (805)781-2777.

September

September 2 Computer Super Shows. Glendale Civic Auditorium. Super Show Productions. Call: 1-800-459-6105.

September 2–3 American Computer Mega Show. Carson Center, Carson. American Mega Shows. Call: (818)961-3782.

September 6 Live Internet Interview With Dr. Joyce Shira Starr On The 3000-Year Celebration Of Jerusalem. On the World Wide Web at *http://www.irsociety.com/roundtable.html* at 7:00 pm. Internet Roundtable Society. Call: (415)327-4386.

September 6–8 Third International Information Warfare Conference. Arlington, VA. National Computer Security Association. Call: (717)258-1816 ext. 202 or *74777.3033@compuserve.com* .

September 8 Electronic Village Conference II. San Luis Obispo. San Luis Obispo Chamber of Commerce. Call: (805)781-2777.

September 9 Computer Marketplace. Sherman Square Entertainment Center, Reseda. National Productions. Call: 1-800-800-5600.

September 9 Computer Show And Sale. Fresno Holiday Inn. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

September 9–10 American Computer Mega Show. CSU, Northridge. American Mega Shows. Call: (818)961-3782.

September 9–10 Computer Show And Sale. Ventura Fairgrounds. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

September 10 Computer Marketplace. Sequoia Conference Center, Buena Park. National Productions. Call: 1-800-800-5600.

September 10 CyberFlix Multimedia Demo. Orange. CyberFlix and NOCCC. Call: (714)998-8080.

September 12–13 Networked Economy Conference. Washington, DC. CMP Publications. Call: (516)562-7434 or email *jvarman@cmp.com* .

September 12–14 Multimedia Expo West And Internet: Online And On The Web. San Francisco. American Expositions. Call: (212)226-4141.

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September 9 Sunday	**RESEDA** Sherman Square Entertainment Center From the 101 Freeway take the Reseda offramp, turn left (east) to Sherman Way and turn right. Go one block to Canby Street. 18430 Sherman Way.
September 10 Sunday	**BUENA PARK** Sequoia Conference Center Take the Beach Blvd. exit off the 91 Freeway. Go one block north to 7530 Orangethorpe.
September 16 Saturday	**SANTA BARBARA** Earl Warren Showgrounds Take Highway 101 to the Las Positas Exit. Follow the signs to the fairgrounds.

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Resources

Calendar Of Events *continued...*

September 13 Live Internet Interview With Dr. Oliver Sacks, Professor Of Neurology. On the World Wide Web at *http://www.irsociety.com/roundtable.html* at 7:00 pm. Internet Roundtable Society. Call: (415)327-4386.

September 14–15 GlobalSoft International Forum. Seattle, WA. GlobalSoft Expo. Call: Steve Hatch, (206)624-9743 or *rshatch@globalsoftexpo.com* .

September 14–15 Seventh International Unicode Conference And Multilingual Computing Exhibition. San Jose. The Unicode Consortium. Call: (604)983-9157 or email *conference@unicode.org* .

September 16 Computer Marketplace. Earl Warren Showgrounds, Santa Barbara. National Productions. Call: 1-800-800-5600.

September 16 Computer Show And Sale. Palm Springs/Indio, Riverside County Fair. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

September 16 Computer Super Shows. Hollywood Park. Super Show Productions. Call: 1-800-459-6105.

September 16–17 American Computer Mega Show. National Orange Show, San Bernardino. American Mega Shows. Call: (818)961-3782.

September 16–17 Computer Show And Sale. Scottish Rite Center, San Diego. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

September 17 Computer Super Shows. Riverside Convention Center. Super Show Productions. Call: 1-800-459-6105.

September 17–20 SOFTWORLD '95 International Software Conference. Vancouver, BC. SOFTWORLD '95. Call: 1-800-667-5535 or *info@softworld.org* .

September 17–22 LISA '95: 9th Systems Administration Conference. Monterey. USENIX and SAGE. Call: (714)588-8649 or *conference@usenix.org* .

September 18 Hollywood In Cyberspace Conference. Hollywood. Sensational Seminars. Call: Nina Steiner, (310)288-3425 or *nina@sensational.com* .

September 18–21 UNIX Expo '95: The Open Systems Show. New York. Blenheim. Call: 1-800-829-3976.

September 20–22 EdNET 95: The Educational Technology And Telecommunications Markets Conference. San Diego. *The Heller Report.* Call: (708)441-2920 or *hellerreport@delphi.com* .

September 21–22 Digital Shopping And Electronic Commerce Conference And Exhibition. New York. American Expositions, Inc. Call: (212)226-4141.

September 24 ACP Computer Swap Meet. Santa Ana. ACP. Call: (714)558-8813.

September 24 Computer Show And Sale. California Center for the Arts, Escondido. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

September 24 Computer Show And Sale. Oxnard Community Center. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

September 26–29 Seybold Conference And Expo. San Francisco. SOFTBANK Expos. Call: 1-800-488-2883 or *http://www.sbexpos.com* .

September 30 Computer Marketplace. Sherman Square Entertainment Center, Reseda. National Productions. Call: 1-800-800-5600.

September 30–October 1 Computer Show And Sale. Scottish Rite Center, San Diego. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

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The latest PC systems, Notebooks, Multi-Media, Boards, Laser Printers, Fax Modems, Disk Drives, Softwares, Books, Accessories, and more
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Best Show in the Valley — Aug 19-20, Sat & Sun 10 - 5PM — Cal State Northridge, 18111 Nordhoff Street (INDOOR SHOW at Student Union)
South Bay — Sept 2-3, Sat & Sun 10 - 5PM — SOUTH BAY: Carson Ctr, 801 E. Carson Street, Carson (corner of Avalon & Carson)
Sept 9-10, Sat & Sun 10 - 5PM — Cal State Northridge, 18111 Nordhoff Street (INDOOR SHOW at Student Union)
Sept 16-17, Sat & Sun 10 - 5PM — Cal State LONG BEACH, 1250 Bellflower Blvd., Long Beach
9/30 - 10/1, Sat & Sun 10 - 5PM — SHRINE AUDITORIUM, 700 W. 32nd Street, LA (Across from USC)
San Bernardino — Oct 14-15, Sat & Sun 10 - 5PM — National Orange Show (SB), 689 South "E" Street, San Bernardino
AMERICAN MEGA SHOWS 818-961-3782 Call to Confirm
Shows subject to change without notice

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ACP's 69th GIANT
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The Internet, Word 6.1, WordPerfect, Microsoft Excel, Home Accounting, Multi-Media, Lotus, Networking, How to Buy a New System and More.

Aug. 26 Saturday **RIVERSIDE** CONVENTION CENTER
3443 ORANGE ST., RIVERSIDE
(CROSS STREETS ARE MARKET ST. AND 5TH STREET)

Aug. 27 Sunday **CAL STATE** LONG BEACH
1250 BELLFLOWER BLVD., LONG BEACH
(CROSS STREETS ARE BELLFLOWER BLVD. AND 7TH STREET - IN THE WEST GYM)

Sept. 2 Saturday **GLENDALE** CIVIC AUDITORIUM
1401 N. VERDUGO, GLENDALE
(CROSS STREETS ARE MOUNTAIN AND VERDUGO)

Sept. 17, Sunday RIVERSIDE CONVENTION CENTER

Sept. 24, Sunday CAL STATE LONG BEACH

Oct. 8, Sunday RIVERSIDE CONVENTION CENTER

SUPER SHOW PRODUCTIONS, INC.
(714) 852-9267 OR (800) 459-6105
FAX (714) 852-9265

SHOW HOURS:
10:00AM TO 5:00PM
VENDOR SETUP:
7:00AM TO 9:00AM

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$2.00 OFF ADMISSION

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COMPUTER SHOW & SALE EXPO

Sept. 2 & 3 Saturday & Sunday — **CAL STATE NORTHRIDGE** *18000 Devonshire, Northridge*

Sept. 10 Sunday — **ORANGE COUNTY FAIRGROUNDS** *88 Fair Drive, Costa Mesa*

Sept. 22 & 23 Saturday & Sunday — **CAL STATE NORTHRIDGE** *18000 Devonshire, Northridge*

Directions: CSUN: **From the San Diego Feeway (405)** take the Devonshire exit West to Northridge continue onto 18000 Devonshire Blvd. **From the (118) Freeway** take the Reseda exit South. Turn left on Devonshire Blvd. **ORANGE COUNTY FAIRGROUNDS: From the (405) South** take the (55) Freeway south. Exit Del Mar Drive. Turn Right on Fair Drive. **From the (5) South** take the 55 Freeway south. Exit Del Mar Drive. Turn Right on Fair Drive.

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Classes: Classes are offered evenings and Saturdays in **Azusa, El Segundo, Orange,** or **Pico Rivera**. Start the program at the beginning of any term: Sept. 5, Nov. 13, Feb. 5, or April 22.

For more information, call: Department of Computer Science at (818) 815-5310 or Linda Kluge, Orange County Program Representative, at (714) 935-0260.

AZUSA Pacific UNIVERSITY

901 E. Alosta Ave., PO Box 7000, Azusa, CA 91702-7000

Resources

Calendar Of Events *continued...*

October

October 1 Computer Marketplace. Sequoia Conference Center, Buena Park. National Productions. Call: 1-800-800-5600.

October 2–3 Understanding Document Imaging Seminar. Irvine. Data-Tech. Call: (201)478-5400.

October 6–8 Online Expo '95. Los Angeles Convention Center. International Marketing Associates. Call: (310)285-8728 or *IMA95@aol.com* .

October 7–8 Los Angeles Computer Fair. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

October 7–11 International Exhibition Of Computer And Applications For China. Shanghai, China. CATE, Inc. Call: (415)903-2288.

October 8 Computer Show And Sale. Fresno Holiday Inn. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 8 Computer Super Shows. Riverside Convention Center. Super Show Productions. Call: 1-800-459-6105.

October 9–11 1995 Connector And Interconnection Symposium And Trade Show. San Jose. International Institute of Connector and Interconnection Technology. Call: 1-800-85-IICIT.

October 9–12 Eighth Annual Microprocessor Forum. San Jose. MicroDesign Resources. Call: 1-800-770-4006.

October 10–12 Data Warehousing Conference. Phoenix. DCI. Call: (508)470-3880 or *http://www.DCIexpo.com/* .

October 14 Computer Marketplace. Earl Warren Showgrounds, Santa Barbara. National Productions. Call: 1-800-800-5600.

October 14–15 Computer Show And Sale. Oxnard Community Center. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 15 Computer Show And Sale. Antelope County Fairgrounds, Lancaster. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 15 Computer Show And Sale. California Center for the Arts, Escondido. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 15 NOCCC Computer Fair And Swap Meet. Anaheim Marketplace. North Orange County Computer Club. Call: (714)521-6915.

October 17–19 Office Tech '95 Expo. Detroit, MI. Office Tech Expos, Inc. Call: Cindy Hunter, (810)643-3317.

October 21 Computer Show And Sale. Palm Springs/Indio, Riverside County Fair. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 21 Computer Super Shows. Glendale Civic Auditorium. Super Show Productions. Call: 1-800-459-6105.

October 21–22 Computer Show And Sale. Del Mar Fairgrounds. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 24–28 Interactive Summit. Squaw Valley, CA. International Interactive Communications Society. Call: (818)798-5588 or email *IICSSummit@aol.com* .

October 28–29 Computer Marketplace. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

October 29 Computer Super Shows. Cal State Long Beach. Super Show Productions. Call: 1-800-459-6105.

October 30–November 3 PNC—People, Networks, And Communication '95 Conference. Honolulu, Hawaii. International Community Interconnected Computing Exchange. Call: Gale Warshawsky, (510)820-6821 or *msgale@netcom.com* .

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Anaheim Stadium Computer Show

Saturday
Sept. 16, 1995

Saturday
Oct. 14, 1995

New Show

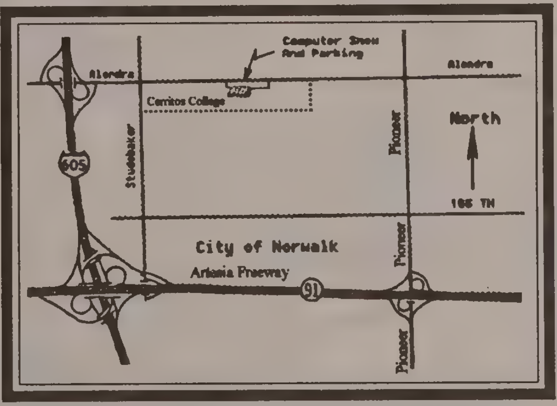
Cerritos College Computer Show

Sunday
Sept. 17, 1995

2 Day Show

Saturday & Sunday
Oct. 21 & 22, 1995

Seminars for Sunday Sept 17, 1995
11AM to Noon - Introduction to the PC
Noon to 1PM - How To Buy a PC
2PM to 3PM - The Internet
3PM to 4PM - Windows
All Seminars by professional instructors.
$5.00 Admission for each seminar.



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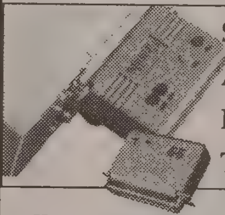

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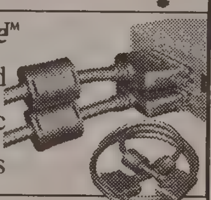
- *LED Provides Diagnostic Ability*
- *Reduces SCSI Retries and SCSI Errors*



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Resources

Calendar Of Events *continued...*

Classes, Seminars, Workshops

August

August 21–23 Software Safety Class. Los Angeles. UCLA Extension. Call: (310)825-1901.

August 26 How To Start And Build A Full-Time Or Part-Time Computer Consulting Practice Seminar. San Diego. Center for Consulting and Professional Practices. Call: (310)324-2386 or 719-1760.

August 30–31 Windows On NetWare Class. Los Angeles. Center for Advanced Professional Development. Call: (714)261-0240.

September

September 5–8 Nonlinear Editing On The PC With D/Vision Pro Class. Los Angeles. UCLA Extension. Call: (310)825-1901 or *rmacales@unex.ucla.edu* .

September 6–7 Intro To Microsoft Word 6.0 For Windows Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 6–December 13 Windows Programming Using MFC Class. Gardena. Chesapeake Software. Call: (310)541-6216.

September 9 How To Start And Build A Full-Time Or Part-Time Computer Consulting Practice Seminar. San Diego. Center for Consulting and Professional Practices. Call: (310)324-2386 or 719-1760.

September 9 PC Survival Guide Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 10–17 Intro To Lingo Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

September 12–November 16 Animation And Three-Dimensional Computer Graphics Using Alias, Part I Class. Riverside. UCR Extension. Call: (909)787-4105 or 1-800-442-4990.

September 13–14 Intro To Microsoft Access 2.0 Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 16 Beginning Internet Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 18–21 Object-Oriented Programming And Design Under The C++ Object Model Class. Los Angeles. UCLA Extension. Call: (310)825-1901.

September 18–22 Engineering And Management Program. Los Angeles. UCLA Extension. Call: (310)825-3858 or *bcroswhi@unex.ucla.edu* .

September 18–October 18 Animation And Three-Dimensional Computer Graphics Using Alias, Part II Class. Riverside. UCR Extension. Call: (909)787-4105 or 1-800-442-4990.

September 20–21 Intermediate Word 6.0 For Windows Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 20–21 Intro To QuickBooks Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 20–21 WordPerfect For Windows Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 27–28 Intro To Microsoft Excel 5.0 Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 27–28 Intro To Windows 3.1x Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

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P90 PowerMedia

Intel 90MHz Pentium Processor
16MB - 850MB EIDE - Quad Speed Multimedia
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Mini-Tower Case - 256k Cache - 101 Keyboard - Mouse
PCI EIDE Controller w/ 2serial, 1Paralell
Ms Dos 6.2 & Win3.1 or **WIN95 Upg.**
Quad Speed Multimedia included:
Sound Blaster 16, 100Watt Speakers
Microsoft Multimedia CD (Encarta95, MS Works 3.0, Money & Games)

$1995

100MHz **$2195** 120MHz **$2300**

P100 PowerStation

Intel 100MHz Pentium Processor
32MB - 1.2GB EIDE - Quad Speed Multimedia
2MB (Optional 4MB) VRAM PCI S3 964 64bit Acclr.
17" .28dpi, Flat, Digital Monitor
Mid-Tower Case - 256k Cache - 101 KeyBoard - Mouse
PCI EIDE Controller w/ 2serial, 1Paralell
Ms Dos 6.2 & Win3.1 or **WIN95 Upg.**
Quad Speed Multimedia included:
Sound Blaster 16, 100Watt Speakers
Microsoft Multimedia CD (Encarta95, MS Works 3.0, Money & Games)

$2895

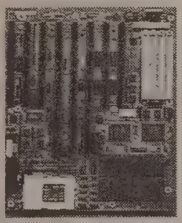
120MHz **$3095** 133MHz **$3245**

4100 Home PC

AMD 486DX 100MHz Processor
16MB - 540MB EIDE - Double Speed Multimedia
2MB Vram Graghic - 14" .28dpi Monitor
14.4k Internal Fax/Modem - Mid-Tower Case - 256k Cache
VLBEIDE Controller w/ 2serial, 1Paralell - 101 KeyBoard
Mouse - Ms Dos 6.2 & Windows 3.1
Double Speed Multimedia included:
Sound Blaster 16, 100Watt Speakers
Microsoft Multimedia CD (Encarta95, MS Works 3.0, Money & Games)

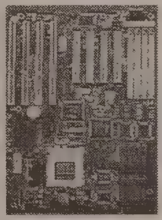
$1495

Pentium Vesa Local Bus



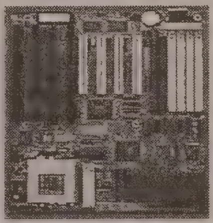
256K Cache
OPTI Chipset
up to90MHz
w/o CPU
$155

Pentium Triton ChipSet



256K Cache
up to133MHz
Award PnP Bios
Built-in IO
w/o CPU
$185

Pentium 90MHz w/ 16MB $895



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Built-in IO
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Standard SIMM Module

30 Pin SIMM	72 Pin SIMM
1x9 ...$37	1x32 ...$130
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All simm 70ns Speed	All simm 70ns Speed

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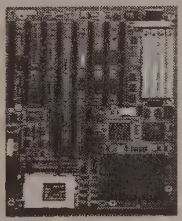
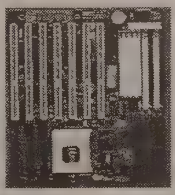
486DX2 Vesa Local Bus -50MHz



256K Cache
OPTI Chipset
w/Intel CPU
$155
w/4MB $285
w/8MB $415

Armstrong 486DX4 VLB -100MHz



256K Cache
AMI Win bios
AMD CPU, Cooling Fan
$195
w/8MB $455
w/16MB $595

CPU Processor

IBM486DX2 66	$90
AMD486DX4 100	$125
INTEL Pentium 75	$245
INTEL Pentium 90	$325
INTEL Pentium 100	$425
INTEL Pentium 120	$call
INTEL Pentium 133	$call

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Built-in Tuner to Watch TV
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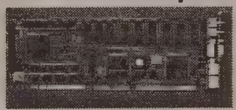

VLB Bus, 64bit Vram Base Accelrator
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2MB ...**$135** 4MB ...**$295**

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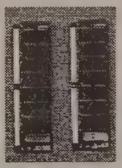

16MB
Pair of 2x32 70ns
$520
32MB
Pair of 4x32 60ns
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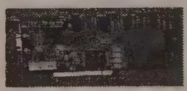


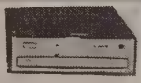
S3 964, PCI Bus, 64bit Vram Base Accelrator
High end Graphic Card
2MB ...**$225** 4MB ...**$325**

Stealth 64 Video Card

S3 868, PCI Bus, 64bit Base Accellrator
Play full Motion Video
2MB ...**$159**

IDE HardDrive

560MB	$155
850MB	$195
1.2GB	$245



CD-rom Drive

2x IDE	$95
4x IDE	$155
4x SCSI2	$275

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14" .28dp	$205
15" Digital	$295
17" Digital .27dpi	$525
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A-Men On-Line. (213)651-0507, (310)366-1769, (818)785-1679. 8-N-1, 24 hrs., West Hollywood's hottest party and gym boy board. Gay/bi/curious. Fee. Sysop: John Whyman. [Exp. #141.]

Annex Online. (213)293-0700, (310)788-3818, (818)779-5600, telnet 204.74.67.1 . [Exp. #140.] lines. Multiline chat, full Internet/SLIP, user meets, more. Sysop: Greg Gooden. [Exp. #141.]

Aussie BBS. (310)425-5710, 320-5000; (714)670-6500, 572-8800, 537-4300, 262-1200; (818)961-1700, 447-6100, 357-5005. 18 lines. 35,000+ files, TradeWars 2002, MajorMUD, chat, Internet, RIP support. Free trial. Sysop: Mike Szabados. [Exp. #142.]

Beyond Chat BBS. (310)402-5869; (714)572-1993, 526-2344, 539-1849. 24 hrs., 14,400. 8 lines. Fun-loving, friendly, fast-growing, exciting, new adult board! [Exp. #141.]

The Crusader BBS. (213)466-4482, (310)348-9746. 14,400. Multiline. 12 CD-ROMs, Internet email, Usenet, chat, games, FidoNet, files. Sysop: Jack Farmer. [Exp. #142.]

DigitalPopcorn. (213)462-5919; (818)398-3303, 843-7919, 988-4750. 24 hrs. except backups T, Th, Sat 2–5am. DigitalPopcorn is a Pasadena BBS with newgroups, OneNet, and local conferences. Fee. [Exp. #142.]

Eden—The Electronic Garden. (310)421-2420; (714)548-1900, 530-6335. Telnet edenbbs.com . 24 hrs., 14,400. 52 lines. Adults only "playground," full Internet access, World Group for Windows. Sysop: Daniel Vesely. [Exp. #142.]

Hell's Door BBS. (310)429-7070, 903-5512, 943-4729; (714)891-6083. 8-N-1, 24 hrs., up to 28,800. Eight nodes. 70,000+ files, games, multinode chat, large adult section. Free. [Exp. #142.]

Hotel California. (310)407-1300, (714)437-1492, telnet: kincyb.com . 24 hrs., 14,400–28,800. Full Internet! Games, adult GIFs, chat, forums. Low fee/no time limits. [Exp. #141.]

KBBS Los Angeles. (213)725-3047, (310)558-0145, (805)520-7323, (818)886-0872. Telnet 204.96.25.7 . 300–28,800. 116 lines. 30GB shareware, adult; chat, full Internet, Usenet, coffee meets. Free trial. [Exp. #140.]

LA Free-Net. (213)223-6511, 764-3022; (818)776-5000. 8-N-1, 24 hrs., up to 14,400. 70 lines. Local boards, email, WWW, gopher, and more. $15/year. [Exp. #142.]

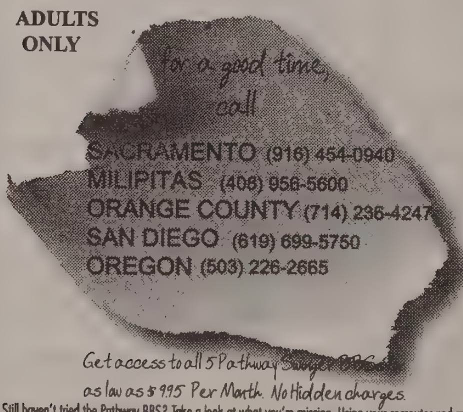
Miller's Party Board. (310)815-0117. 300–14,400, telnet 38,800. 44 lines of pure fun! TradeWars, MajorMud, live chat, Internet. Free trial. Sysop: Jack Stern. [Exp. #140.]

Mr. Wonderful's Lair. (213)261-8055, (818)451-0874. 24 hrs., 28,800. Internet, echo mail, games, shareware, adult, 12 CDs. Free 14-day account. Sysop: Mr. Wonderful. [Exp. #141.]

The Online Connection. (213)957-5040, (310)659-5311. 8-N-1, 24 hrs., 28,800. TBBS, 32 multiline adult chat games, GIFs, public boards, more. [Exp. #142.]

Prism BBS. (310)799-0380; (714)454-9242, 638-7249, 642-6256. 8-N-1, 24 hrs., 300–28,800. 32 lines. 4.5GB, Internet, MajorNet, TradeWars 2002, adult areas, social events. Instant access. [Exp. #142.]

Star Tech. (714)257-1175, (909)396-4BBS. 8-N-1, 24 hrs., 28,800. Internet email, newgroups, FidoNet, CD-ROM, L.O.R.D., B.R.E. Free trial/fee. Sysop: David Unfried. [Exp. #142.]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BBS Spotlight

By John Wolcott

Close Encounters Of The Best Kind

Socially speaking, BBSes are a great communication tool for meeting others with similar interests. Specializing in helping users find friends, Close Encounters BBS primarily offers adult communicative entertainment along with standard system features.

Located in La Habra with three nodes, this BBS may be a bit difficult to reach during peak calling periods. However, persistence will be rewarding. A smaller system such as this one will not overwhelm you with bells and whistles. Here, you will be able to develop or refine good basic BBS skills.

System hardware includes a 386/40 PC with a 300MB hard drive. Modems currently support up to 9600 bps. Software for the system is Wildcat v4.11 with Doors; allowing execution of MS-DOS-based applications such as the matchmaker and FantasyLand, an adult fantasy game.

Of over seven hundred registered users about two hundred fifty are active. Sysop Roger Davis enjoys offering the BBS as a hobby interest. Davis remarked, "The main focus of the board is providing social interaction. We've had quite a few users meet here and develop relationships. It's a very friendly place."

After providing registration information and being validated by the sysop, you'll have access to the Main Menu features which include the Post Office, Match (making), forum conferences, the system newsletter, bulletins, the Files Menu, Doors, and Talk (chat). Although not a full-featured BBS, you're sure to find hours of BBS pleasure and some friends to share this experience with.

The Post Office lets you easily stay in touch with other folks on the system. The system allows off-line mail features with a mail reader you can download from the file library.

Match is your chance to provide some personal information and compare this with other registered users. Whether you're searching for your lifetime love or just looking for friends, you'll be provided with matching statistics and user names for your search criteria. A unique feature here allows you to specify what user attributes you're searching for, rather than just exactly matching yours. You may be a brunette, but looking for a blonde or short and looking for someone tall. You may specify favorite personal qualities in your search and alter them for multiple searches.

Forum conferences feature topical discussion among the BBSers with a definite adult focus. Such conference titles as Social Adventure, Kinks, and Dating appoint the conference choices menu. These conferences are truly an open discussion among users. You may choose only to read the messages posted here or add your two cents' worth.

The system Newsletter and Bulletins will keep you abreast of late-breaking system information and direct you toward interesting features and message postings.

The Files Menu offers over 200MB of files for download.

BULLETIN BOARDS cont.

213

Game Port BBS. 269-9793. Hardcore videos: Japanese, Chinese, amateur, new releases. VISA/MC. [Exp. #141.]

Korea Online. 427-2500. 24 hrs., up to 14,400. Eight lines. Korean files, forums, dating, chat. Free trial. [Exp. #142.]

Scrapted Paint BBS #2. 463-4264. 8-N-1, 24 hrs., 14,400. Lesbian and bicurious, gay, heterosexual adult sections, latest software. Free/fee. [Exp. #140.]

SoulPartners' Computer Online Date. 223-3440. 8-N-1, 24 hrs., up to 14,400. For friendship and romance/ men and women, gay, lesbian sections.18+. Free/fee. Sysop: Maggie Lok. [Exp. #141.]

Summa Nulla BBS. 957-2562. 8-N-1, 24 hrs., 2400–28,800. Doors, files, Internet email, adult. Specializing in PC support. Free/fee. Sysop: Martin Blackwell. [Exp. #142.]

310

The Bizopps Connection. 677-7034. 8-N-1, 24 hrs., up to 14,400. Provides listings of business and franchise opportunities; online databases; and more. Sysop: Lawrence C. Toliver. [Exp. #141.]

ChAoS Online. 318-5089. 24 hrs., up to 14,400. Windows files, adult GIFs, six CDs, games, chat, messages. Free/fee. [Exp. #142.]

CircusMaximus OS/2 BBS. 782-7580. 23 hrs., 28,800 and ISDN. Internet access available, OS/2 and DOS file areas, echomail, more. [Exp. #142.]

CyberKorea BBS. 926-1899. Korean files and info, Badook-go, forums, Internet email, chat, more. $15/yr. [Exp. #140.]

The Dark Crystal BBS. 522-9633. 8-N-1, 24 hrs., 14,400. Messages, doors, GIFs, shareware, CD-ROMs. Free/fee. Sysop: Akira. [Exp. #140.]

Fantasia Online Information Service. 986-9705. 8-N-1, 24 hrs., up to 28,800. The carpool lane on the Information Superhighway! Call today! Sysop: Brian Andrus. [Exp. #140.]

Frog King BBS. 923-3764. 8-N-1, 24 hrs., 2400–14,400. Social playground of intelligent adults; chat, email, libraries, pub areas. Free access levels. [Exp. #140.]

Illusions Mega System. 804-3324. 24 hrs., 1200–14,400. Multiline, chat, games, thousands of files, network support, more! Fee. Sysop: Jim Walten. [Exp. #140.]

The Jungle. 494-0909. 8-N-1, 24 hrs., 14,400. Files, games, chat, messages, six CD-ROMs, adult sections. Free access. Sysop: Cobra. [Exp. #142.]

Los Angeles Macintosh Group BBS. 559-6227. 8-N-1, 24 hrs. Latest files; upgrades; forums on DTP, multimedia and video, employment; more. [Exp. #142.]

Mac-Hac'ers BBS. 549-9640 with rollover. 8-N-1, 24 hrs., 1200–28,800. 11 CD-ROMs, OneNet and Internet with satellite feed for immediate updates. Sysop: Bud Grove. [Exp. #141.]

Manhattan Online. 374-9994. 28,800. Four lines. Windows, DOS, and OS/2 shareware. FidoNet, Internet shell accounts. Free. Sysop: Paul Swanno. [Exp. #141.]

Mommadillo's BBS And Breakfast. 438-7830. 24 hrs. v.32bis. Games, files, good conversation for your online enjoyment from beautiful Belmont Shore. [Exp. #141.]

Networx Online. 337-0756. 8-N-1, 24 hrs., 14,400. Listings for business, multilevel marketing, National Home Business Consultant Network, more. Sysop: Michael Jennings. [Exp. #140.]

One World. 372-0987. Ecology, gardening, health, alternative news, international network. Free. [Exp. #140.]

Original Apple Corps BBS. 454-4660. Apple II support. Sysop: Ed Molina. [Exp. #142.]

Servant Christian BBS. 371-2770, 371-3130, 371-0251. 14,400. A modem ministry for Mac and Windows. First Class. Administrator: Doug Wade. [Exp. #141.]

South Bay Apple Mac User Group BBS. 792-8083, 792-0264. 14,400. FirstClass. Administrator: Dr. Dave. [Exp. #141]

The Tower BBS. 698-3006. 24 hrs., 300–14,400. Christian fellowship, CD-ROM files, L.O.R.D., TradeWars, Doors, games, instant verification. Sysop: Raymond Shih. [Exp. #142.]

Upper Transylvania BBS. 515-6843, 515-6953, 515-1757. 24 hrs., 1200– 33,600. Christian and free. 20 CDs. Hub for Agape Family Net. Sysop: Ron Hoffman. [Exp. #142.]

XchangeNet. 452-3374. 8-N-1, 300–9600. All classified ads, all free, swapmeet of everything this side of Luna. Sysop: Rex Brains. [Exp. #141.]

408

Garlique Graphics Image Center. 847-0665. Home of famous Garlique Ladies. Free Internet for members; adult CDs. [Exp. #140.]

619

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BBS Spotlight cont.

You can select particular file types for review. A brief description of these applications will be displayed and allow specific selection. Both shareware and adult-oriented graphical files are available. The file library is well maintained by the File Library Administrator (FLA), Steve Valco. All files have been inspected and virus scanned before they are available to the general populace. All common download protocols are supported, including Zmodem. The recommended download to upload ratio is 25 to 1.

You may also choose to chat with another connected user. Real-time chat is a good way to meet other modem junkies. This is also a great way to pick up a BBS tip or two and meet your BBS chums for the latest rumors.

Close Encounters is free to use and donations are greatly appreciated, allowing the sysop a budget for system upgrades. You can reach the BBS by calling (310)947-3997 or (310)902-9538 with the standard modem protocols of 8-N-1. Enrich your social experience with this friendly BBS. ■

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Is Your Listing Missing?

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Free BBS listings are limited to the board's name, phone number, hours, baud rates, parameters, and a ten-word description. Please let our readers know if your BBS is free or requires a fee. Because we have an ongoing problem of boards shutting down without telling us, much to the annoyance of would-be callers and the new phone number's owner alike, we will **delete these listings after they've run three months.** The notice at the end of the listing—Exp. #xxx—refers to the last issue number it will appear in unless renewed.

You can update or renew your listings at any time. If yours is missing, send your listing information to:

US Mail should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)934-3958. **Email** can be sent to: *JohnDownen@aol.com* or MCI:MICROTIMES.

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L.O.R.D., Assassin, chat, more. Free trial. Sysop: Brett Tondreau. [Exp. #142.]

The Gathering. 557-0900, 842-0299. 8-N-1, 24 hrs., 2400–28,800. Many files, WADS, Doors, TradeWars 2002, LORD, Usurper, Interplay Distribution Site. Sysop: Andy Zeilman. [Exp. #142.]

Ham*Info*Link*Source BBS. 584-1952. 8-N-1, 24 hrs., up to 14,400. Devoted to amateur radio, swl, dx, news. Free. Sysop: Joe, kb6axk@netcom.com . [Exp. #142.]

Head's Up BBS West. 334-7858. 8-N-1, 24 hrs., 2400–28,800. Multi-interest adult files, adult CDs, no ratio. Seven-day free trial. Sysop: Alberto Diaz. [Exp. #142.]

InvestorLink. 331-4611. Daily and historical stock, commodity, mutual fund prices; real estate, currencies, companies. Sysop: Steve Painter. [Exp. #141.]

KTB Internet Online. 240-4000. 8-N-1, 24 hrs., up to 28,800. Internet access (WWW, FTP, IRC, Gopher), shell, PPP/SLIP. UUCP, files. Free trial. [Exp. #141.]

The Lair BBS. 286-5711. Games, shareware, conference, sign on free as full user. [Exp. #140.]

Loveline BBS. 997-6000. True Windows BBS. Call for free Windows client software. [Exp. #142.]

Miles Of Music BBS. 883-9976. 8-N-1, 24 hrs., 28,800. Rock music collectibles, band/club info, music pubs. Free access. [Exp. #142.]

MouseCapades, The BBS. 340-1826. 8-N-1, 24 hrs., 14,400. Adults only shareware, games, chat, MatchMaker. Free trial. [Exp. #142.]

My Board BBS. 347-7711, 789-1776. Full Internet, interactive games, chat, MatchMaker, 3GB of files. Free trial. Sysop: Anne Kingsbury. [Exp. #140.]

Open Mind Discussion Club. 758-9348. 24 hrs. Discussions of current and topical events. No fees! Sysop: Bill Greenland. [Exp. #141.]

Silicon Networking Internet Access. 785-7870. 24 hrs., 28,800. Full unlimited Internet access. UNIX shell and SLIP/PPP available. [Exp. #142.]

The SLATE BBS. 763-9172. 8-N-1, 24 hrs., 300–14,400. Sports, law, tons of everything, files, original games, and more. Free. Sysop: Rob Reed. [Exp. #142.]

Virtuoso OnLine. 543-0416. 8-N-1, 24 hrs., 300–14,400. TLAN and TFNet conferences, adult, Mac, PC, chat, thousands of files. Free. Sysop: Ivan Thomson. [Exp. #140.]

Wizardry BBS. 222-4444. 2400–14,400. Online games, downloads, uploads, adult GIF and text files. Free. [Exp. #141.]

Xtasy. 330-7596. 5+GB adult GIFs, AVIs; 3+GB shareware; fantasy sport leagues w/daily stats. [Exp. #142.]

909

The Berean University. 947-2278. 8-N-1, 24 hrs., 14,400. Large message base, logic/philosophy/technical, games, files, more! Free access. [Exp. #140.]

California Prime Line (CPL). 307-1344. 24 hrs., 14,400. 10 lines. One-stop family entertainment service. Free limited trial. Sysop: Shadow. [Exp. #142.]

Data Connection. 698-7257. 8-N-1, 24 hrs., 28,800. Multiline. Internet, news, sports, weather, 12 CDs, adult areas. Fee. Sysop: Dennis Clark. [Exp. #142.]

The Empire BBS: The Next Generation. 946-1448. 8-N-1, 24 hrs., 300–14,400. Multiline chat, all welcome, matchmaker, flower shop, files. From $2.50/month. Sysop: Tigana and Emperor. [Exp. #141.]

The French Connection BBS. 428-7648. 24 hrs., Eight lines. California's largest adults-only BBS. View GIFs online in Windows. Sysop: Christopher Moss. [Exp. #141.]

Head's Up BBS. 681-3721. 8-N-1, 24 hrs., 2400–28,800. Multi-interest adult files, adult CDs, no ratio. Seven-day free trial. Sysop: Mark Temte. [Exp. #142.]

Legend Graphics OnLine. 689-9229. 24 hrs. 20 lines. SuperVGA photo images, MoviePICs, huge adults-only file areas. [Exp. #142.]

Sidewinder BBS. 352-1773. 24 hrs., 2400–14,400. Email, files, no fees. Sysop: Sundown. [Exp. #140.]

Spectrum Online Services. 396-9117. 24 hrs., 14,400. Chat, email, interactive games such as Doom and Business Advertising. Free limited access. [Exp. #140.]

TDT Online! 595-4050, 598-0036. 8-N-1, 24 hrs., 2400–28,800. Internet email, Usenets, 15 CDs, huge adult section. Fee. [Exp. #141.]

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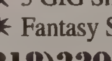

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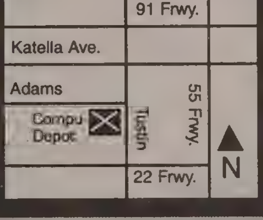

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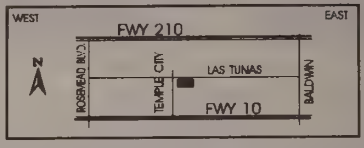

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USER GROUPS

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ATUG—San Gabriel Valley. Meetings: last Tues., 7:00 pm, Michelangelo's Pizza, San Dimas; 3rd Sat., 11:00 am, 1st Southern Baptist Church, Temple City. Call: Steve Ward, (818)285-6424. [Exp. #140.]

Champions Of The Mac Proletariat (CHOMP). Meetings: 4th Thurs., 7:00 pm, Cal Poly Pomona, CLA Bldg., Rm. P2-7, Pomona. Call: Craig Richards (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #145.]

Orange Apple Computer Club. Meetings: 1st Sat., 8:00 am, Chemistry Bldg., Orange Coast College, 2701 Fairview Rd., Costa Mesa. Apple II and Mac users, various SIGs. Call: (714)770-1865, or S.W. Hosey (714)962-3893. [Exp. #142.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac users group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #145.]

ATARI

All Computer Association Of Orange County. Meetings: 2nd Sun., 1:00 pm, 12860 Euclid Ave., Garden Grove (next to Black Angus). Supporting Atari, Macintosh, PC, and other computer systems. Call: (714)265-9357. [Exp. #144.]

ATESIG—Atari 8-Bit SIG. Meetings: 145 Surf Pl., Seal Beach. Cooperative user group for model railroad applications. Call: (310)430-5433. [Exp. #145.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #143.]

CAD/CAM

Los Angeles AutoCAD User Group—LAAUG. Meetings: 4th Wed., 6:30 pm, Burbank Board of Realtor's, 2006 W. Magnolia Blvd., 2nd Floor, Burbank. Newsletter, BBS, tutorials, 3D SIG; $50/year or $10 at door. Call: Michael Berman, (818)762-9966. [Exp. #140.]

COMMODORE

CHLB—Commodore Helpers of Long Beach. Meetings: 2nd Sat., 9:00 am., Community Presbyterian Church, 6380 Orange Ave., Long Beach. Newsletter, large library, monthly disks. Call: Herb, (310)429-8998. [Exp. #143.]

Orange County Commodore Club. Meetings: 4th Sat., 11:00 am, Costa Mesa Public Library, 1855 Park Ave., Costa Mesa. Call: Mike Moore, (714)668-9715. [Exp. #144.]

San Fernando Valley Commodore 64/128 Users Group. Meetings: 1st Tues., 7:00 pm, Balboa Park Recreation Center, Rm. 2, Balboa and Burbank blvds., Encino. Call: Paul Kroll, (818)892-3859. [Exp. #142.]

South Bay Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, So. Cal. Edison Generating Station, 1100 Harbor Dr. (across from King Yacht Harbor), Redondo Beach. Call: Dorothy, (310)323-9265. [Exp. #143.]

FRAMEMAKER

Orange County FrameMaker Users Network (OCFUN). Meetings: 3rd Thurs., 6:00 pm, LearnSoft, 4590 MacArthur Blvd., Suite 350, Irvine. Call: Marge Packman, (714)798-1230 or *mpackman@cisco.com*. [Exp. #145.]

IBM AND COMPATIBLES

All Computer Association Of Orange County. Meetings: 2nd Sun., 1:00 pm, 12860 Euclid Ave., Garden Grove (next to Black Angus). Supporting Atari, Macintosh, PC, and other computer systems. Call: (714)265-9357. [Exp. #144.]

Channel Islands PC User Group. Meetings: 1st Sat., 9:30 am, Freedom Center, 515 Eubanks St., Camarillo (at Camarillo airport). Covers DOS, Windows, OS/2. Visitors welcome, no charge, PO Box 5025, Oxnard, CA 93031. Email: *dviolini@rain.org* . [Exp. #144.]

Greater South Bay PC Users Group. Meetings: 2nd Thurs., 7:30 pm, Torrance Recreation Center, behind Torrance main library. Call: (310)335-2799. [Exp. #144.]

Long Beach IBM PC And Compatibles Users Group. Meetings: 3rd Wed., 7:00 pm, Masonic Temple, 5155 E. Pacific Coast Hwy., Long Beach. Novice and experienced welcome, BBS, public domain library, newsletter, SIGs. $25/year, $35 for families. Call: Jim Wells, (213)439-7114. [Exp. #141.]

Los Angeles Computer Society. Meetings: 2nd Tues., 7:00 pm, Robert Frost Auditorium, Culver City High School, 4401 Elenda St., Culver City. Vendor presentations, free software, special interest groups, BBS. Call: (310)471-2726. [Exp. #143.]

Microsoft Foundation Classes User's Group. Meetings: 2nd and 4th Tues., 6:30 pm, 201 W. Hilliard Ave., Monterey Park. Call: Fook H. Eng, (818)572-9220. [Exp. #144.]

Orange Coast IBM PC User Group. 1520 Brookhollow, Suite 38, Santa Ana. Speakers, BBS, software library, newsletter, and SIGs. Everyone welcome. Call: (714)662-2939. [Exp. #143.]

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USER GROUPS cont...

Pasadena IBM Users Group. Meetings: 3rd Wed., 7:00 pm, 2184 N. Lake Ave., Altadena. Speakers on hardware/software, demonstrations, SIGs, library, newsletter, and BBS. Call: Steve Bass, (818)791-1300. [Exp. #141.]

San Bernardino Personal Computer User Group. Meetings: 1st Wed., 6:30 pm, CSU, Jack Brown Bldg., Rm. 285, San Bernardino. All PC users are welcome to come share information and ideas. Call: Mary Kehew, (909)882-3653 or Dan Sheffield, (909)797-9112. [Exp. #141.]

SCV PC-Group. Meetings: 2nd Wed., 7:00 pm, Valencia Town Center Community Room. Call: (805)298-1680. [Exp. #140.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #143.]

Southern California Computer Society. Meetings: 4th Tues., 7:00 pm, Farmers & Merchants Bank, 12535 Seal Beach Blvd., Los Alamitos. We welcome all who are interested in IBM and compatible computers; BBS and newsletter. $15/yr. Call: Hank Burwash, (310)596-9670. [Exp. #141.]

Thousand Oaks Personal Computer Club (TOPCC): Meetings: 4th Thurs., 6:30 pm, Goebel Senior Center, 1385 E. Janss Rd., Thousand Oaks. Programs are targeted at novice to expert levels of computer knowledge. Call: (805)494-8675. [Exp. #145.]

Tug-Net. Meetings: 1st four Thurs., 7:00 pm, Glendale Federal Bank, 7119 Topanga Canyon Blvd., Canoga Park. Visitors free. Ample parking. Call: (818)249-1629 or 884-9441. [Exp. #145.]

Valley Computer Club. Meetings: 1st Wed., 7:00 pm, Burbank Board of Realtors Bldg., rear entrance, 2006 W. Magnolia, Burbank. BBS, PD library, SIGs, newsletter. All welcome. Call: Estella McClintock, (818)848-1948; or Grayce Hruda, (818)842-3707. [Exp. #145.]

Valley IBM Compatible Users Group (VICUG). Meetings: 3rd Fri., 7:00 pm, State Bldg., 6150 Van Nuys Blvd., Van Nuys. Call: Harry Tischler, (818)997-1470. [Exp. #144.]

KAYPRO

KAYOS Kaypro User Group. Meetings: 4th Mon. of even months, 6:00 pm, El Segundo Library, Mariposa and Richmond streets. Call: (310)379-8339. [Exp. #144.]

MACINTOSH

All Computer Association Of Orange County. Meetings: 2nd Sun., 1:00 pm, 12860 Euclid Ave., Garden Grove (next to Black Angus). Supporting Atari, Macintosh, PC, and other computer systems. Call: (714)265-9357. [Exp. #144.]

Champions Of The Mac Proletariat (CHOMP). Meetings: 4th Thurs., 7:00 pm, Cal Poly Pomona, CLA Bldg., Rm. P2-7, Pomona. Call: Craig Richards, (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #144.]

Long Beach Chapter Of LAMG. Meetings: 1st Tues., 6:00 pm, Signal Hill Elementary School Auditorium, 2285 Walnut, Signal Hill. Presentations, Q&A, diverse group of new and experienced Macintosh users. Call: Roger Kroll, (310)433-9818. [Exp. #140.]

Los Angeles Macintosh Group (LAMG). Meetings: 3rd Thurs., 7:30 pm, Santa Monica High School's Barnum Hall, 601 Pico Blvd., Santa Monica. Vendor presentations, 25+ SIGs, seminars, BBS, monthly magazine. Guests welcome. Call: (310)319-1821. [Exp. #145.]

Orange Apple Computer Club. Meetings: 1st Sat., 8:00 am, Chemistry Bldg., Orange Coast College, 2701 Fairview Rd., Costa Mesa. Apple II and Mac users. Various SIGs. Call: (714)770-1865 or S.W. Hosey (714)962-3893. [Exp. #142.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac user group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #145.]

QMUG/LA, The Lesbian, Gay, Bisexual Macintosh User's Group. Meetings: 2nd Mon., 7:30 pm, Los Angeles Gay and Lesbian Community Services Center, 1625 N. Schrader Blvd., Los Angeles. Social, business, and technical network for lesbian, gay, and bisexual Mac users. Call: (213)222-7684 or *QMUG-LA@pop.com* . [Exp. #144.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #143.]

South Bay Apple Mac User Group. Meetings: Last Wed., 8:00 pm, Knob Hill Community Center, 320 Knob Hill, Redondo Beach. Newsletter, PD library, demos, and raffles. Call: (310)644-3315. [Exp. #144.]

NETWORKING

Los Angeles NetWare Users Group (LANet). Meetings: 4th Tues., 6:30 pm, Novell, 11300 W. Olympic Blvd. at Sawtelle, 9th Floor, West LA. Vendor presentations and open forum. Call: LANet, 1-800-60-LANET. [Exp. #144.]

OCNET—Orange County NetWare Users Group. Meetings: 2nd Tues. 6:30 pm and 4th Tues. 11:00 am, Novell, 18101 Von Karman, Suite 500, Irvine. Specializes in Novell NetWare solutions. Call: 1-800-532-7268. [Exp. #143.]

PARADOX

Orange Co. Chapter, LA Paradox User's Group (LAPALs). Meetings: 3rd Wed., 7:00 pm, Newport Beach Fire Dept., 475 32nd St., Newport Beach. Presentations, Q&A, etc. for Paradox (DOS/Windows) users and developers. Call: Glenn Jones, (310)490-2092. [Exp. #145.]

TANDY

San Gabriel Valley Tandy User's Group. Meetings: 2nd Fri., 7:00 pm, Arcadia Park Senior Citizen's Center, 405 S. Santa Anita Ave., Arcadia. Support for Tandy and IBM compatibles, BBS, newsletter, RAM session. Call: Jack Nock, (818)578-0411. [Exp. #140.]

UNIX

UUASC, The UNIX User's Association Of Southern California. Meetings: 2nd Mon., 7:00 pm. For all people using all flavors of UNIX; presentations, discussions. Call: Larry, (714)526-4347. [Exp. #142.]

WINDOWS

WINNERS—WINdows usERS. Meetings: 2nd Sat., 9:00 am, Orange Coast College Chemistry #214, 2701 Fairview, Costa Mesa. Great speakers, help for Windows and Windows applications. Beginners, experts welcomed. Call: (714)542-0468. [Exp. #143.]

ASSOCIATIONS

Society For Technical Communication, Orange County Chapter. A nonprofit organization dedicated to providing educational programs and networking opportunities in technical communication. Call: (714)863-7666. [Exp. #142.]

Software Council Of Southern California. Meetings: usually 4th Wed., 6:00 pm, Long Beach Marriott, main ballroom, 4700 Airport Plaza Dr.; also breakfasts and luncheons around SoCal. A nonprofit trade association whose membership is comprised of software development organizations, as well as companies providing support and services to the local software industry. Call: Bill Manassero, (310)328-0043. [Exp. #144.]

The Software Toolsmiths. Meetings: last Sat., 10:00 am, Joslyn Center, 339 Sheldon St., El Segundo. Discussion and tutorials on programming, including C++, Forth, J, SmallTalk, algorithms, operating systems, and hardware. Neophytes welcome. Call: John LuValle, (818)797-8656 or email: *luvalle@primenet.com*; or Howard Rogers, (310)532-3342 (eves.). [Exp. #140.]

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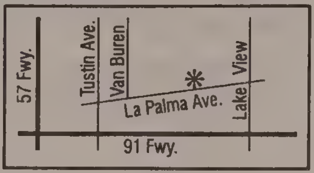

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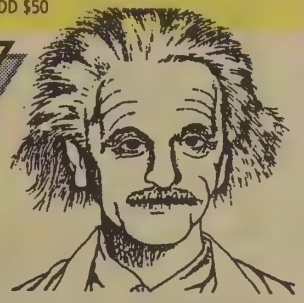

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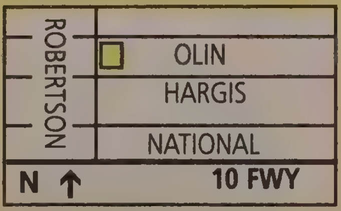

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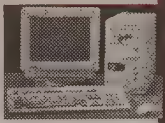

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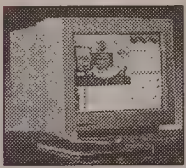

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Online Guide

Web Page Listings

continued from page 106

me.html Links to a variety of interesting sites: adult, hacking, movies, music, philosophy, sci-fi, and indices. [Exp. #145.]

Lynda Williams Home Page *http://www.physics.sfsu.edu/grad/lwilliam/lwilliam.html* Physics graduate student by day, cabaret performer by night, Lynda Williams calls herself a "Science Entertainer." [Exp. #145.]

Mark Holt's Home Page *http://www.sun.com/sunsoft/cdware/mark.html* Sun Microsystems and Solaris links, interview with Yahoo creators, and other cool links. Updated weekly! [Exp. #145.]

Mike Russ's HomePage *http://www.primenet.com/~laurus* Tons o' cool stuff with the Web's most complete list of why some people should die. [Exp. #145.]

Patrick Salsbury's Home Page *http://www.visionware.com/pat.html* 110+ starting points for exploring the Web, HTML URL's, and me on a rock. :-) [Exp. #140.]

Robert Altman's Classic Rock Photography And What Not Shop *http://www.cea.edu/robert/* Altman's shooting life: Janis Joplin, the Stones, Jim Morrison; portraits/stories of Joe Montana, Groucho Marx. [Exp. #145.]

RVL Sci-Fi HomePage *http://www.csun.edu/~hbcsc093/rvl.html* Links to many science fiction sites, 3-D computer graphics and raytracing, and some other cool stuff... [Exp. #145.]

Sophal's Place *http://www.csua.berkeley.edu/~sophal* Sophal's home page has many links to Cambodian-related home pages, not to mention his favorite quotations. [Exp. #140.]

Steve's Hot Stuff! *http://www.sonic.net/~stephen/* Places to explore, useful links for finding helper apps, freeware, and shareware. User Group info. [Exp. #144.]

Tom Curtis's "Wide World Of Art" *http://www.slip.net/~tommy999* Evolving art-based home page including: multimedia, galleries, museums, sound, video, and public and personal art sites. [Exp. #142.]

Vinko Kojundzic's Home Page *http://maja.zems.fer.hr/~vkojun* This is a home page with nice pictures of Zagreb and a link to our official WWW server. [Exp. #140.]

Walt Perko's Home Page *http://slip.net/~wperko* See pics of CD-ROMs: 10,000 Sounds & Songs and MegaMODMadNess vol. 1. [Exp. #140.]

POLITICAL/SOCIAL

African Connections *http://www.melanet.com/melanet/connections* The Web site contains information on the *African Connection* TV series, a listing of available programming, forms for online feedback, news, and links to related organizations. [Exp. #145.]

Australian Embassy *http://www.aust.emb.nw.dc.us* General background on Australia, US-Australia trade, the defense relationship, and answers to frequently asked questions. [Exp. #140.]

Bacard's Privacy Page *http://www.well.com/user/abacard* Author Andre Bac-

List Your Web Page

To list your Web home page for FREE, send us the name of the page/site, the URL (address), and a fifteen-word description. Also, please include a contact name and phone number for our reference only. Listings will run for six issues unless renewed. We reserve the right to select listings on a space-available basis and to edit those listings as needed. Send your listing to: *JohnDownen@aol.com*; Web Listings, 3470 Buskirk Ave., Pleasant Hill, CA 94523; or fax to (510)934-3958.

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386 DX-40 Motherboard w/CPU	$89

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445X 21" 1600X1200NI, .26, Flat, MPRII	$2099

ViewSonic

Viewsonic 15GS .27mm, 1024x768 Flat, TCO	$415
Viewsonic 17GS .27mm, 1280x1024 Flat, TCO	$775
Viewsonic 21PS .25mm, 1280x1024 77hz	$1679

Other Manufacturers

ADI 4GP 15" .28, NI 1280x1024 Flat, MPRII	$349
ADI 5AP 15" .26, NI 1280x1024 Flat, MPRII	$649
Sony 15sf .25, Trinitron Tube, 1024x768@76hz	$419
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Office Pro 14" .28 Non-Interlaced	$218

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intel inside

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- ✓ Asus Pentium Motherboard w/256K Cache
- ✓ 3 PCI, 3 ISA, 1 Combo PCI/ISA Expansion Slot
- ✓ Intel Pentium Processor/Triton Chipset
- ✓ 1.2 Gig EIDE Hard Disk Drive
- ✓ Teac 3 1/2" 1.44 Floppy Disk Drive
- ✓ EIDE Ctrlr w/2 Serial 16550 UART, 1 Parallel
- ✓ Diamond Stealth 64 Video PCI w/2MB Dram
- ✓ Mag 15" .28, NI 1280x1024 Super VGA Monitor
- ✓ 101 Key Keyboard & 3 Button Serial Mouse
- ✓ MS DOS 6.22 & Windows for Workgroups 3.11

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Pentium 75 w/16MB Ram	$1,939
Pentium 75 w/32MB Ram	$2,359
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Upgrade to a Pentium 100 Add	$200
Upgrade to a Pentium 120 Add	$400
Upgrade to a Pentium 133 Add	$500

486 Workstations

- ✓ Mini Tower Case w/5 Drive Bays
- ✓ Asus 486 Motherboard w/256K Cache
- ✓ 4 PCI, 3 ISA, 1 Combo PCI/ISA/VLB Exp Slots
- ✓ AMD 486 Processor
- ✓ 540 Megabyte EIDE Hard Disk Drive
- ✓ Teac 3 1/2" 1.44 Floppy Disk Drive
- ✓ EIDE Ctrlr w/2 Serial 16550 UART, 1 Parallel
- ✓ PCI Windows Accelerator w/1MB DRAM
- ✓ Office Pro 14" .28, NI 1024x768 SVGA Monitor
- ✓ 101 Key Keyboard & 3 Button Serial Mouse
- ✓ MS DOS 6.22 & Windows for Workgroups 3.11

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486 DX4-100 w/4MB Ram	$1,019
486 DX4-100 w/8MB Ram	$1,139
486 DX4-100 w/16MB Ram	$1,349
Upgrade to a DX4-120	Call

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Other Vendors

4x CD, Soundblaster 16, Encarta & more...	$299
Toshiba Quad Speed IDE/SCSI CD-Rom	$179/299
Plextor 6Plex, 145ms, 900Kb, 256K Cache	$479

Modems

U.S. Robotics Sportster 14.4 Int/Ext	$97/105
U.S. Robotics Sportster VI 14.4 Int/Ext	$119/139
U.S. Robotics Sportster 28.8 Int/Ext	$179/199
U.S. Robotics Sportster VI 28.8 Int/Ext	$209/229
Supra 28.8 Internal/External Fax/Modem	$179/199

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Web Page Listings *continued...*

ard provides practical documents and links to protect your computer privacy. [Exp. #145.]

Bay Area Transit Information Project *http://server.berkeley.edu/Transit/* Provides up-to-date public transit information for the San Francisco Bay Area. [Exp. #140.]

Beijing World Wide Web *http://www.igc.apc.org/womensnet/beijing/* Up-to-the-minute information about the Fourth World Conference on Women in Beijing (August 30–September 15), more. [Exp. #145.]

California Libertarian Party *http://www.lp.org/lp/ca/lpc.html* Alternative politics for the golden state. [Exp. #145.]

Charlotte's Web—Government Reform Resources *http://www.emf.net/~cr* Links to government and citizen activist groups; ftp-able grassroots essays, articles; National Debt updates. [Exp. #145.]

Copyright Clearance Center *http://www.directory.net/copyright* Offers an automated process for obtaining and paying for reprint rights. [Exp. #143.]

County Of Orange *http://www.oc.ca.gov* Information on the Orange County board of supervisors, meetings, and press releases. [Exp. #142.]

Cryptography, PGP, And Your Privacy *http://draco.centerline.com:8080/~franl/crypto.html* Links to many of the Web's resources on cryptography, PGP documentation, privacy-related Web links. [Exp. #140.]

CyberLaw *http://www.portal.com/~cyberlaw/* Educational service on computer law for computer users published monthly, including CyberLaw and CyberLex archive. [Exp. #141.]

Democratic National Committee *http://www.earthlink.net:80/~cid/ccri/* Find out about the state's Democratic committee based in Los Angeles. This site also lists events and provides links to local Democratic Party organizations around the country. [Exp. #145.]

Democratic Party Home Page *http://www.webcom.com/~digitals* A place to find information on Democratic officials, organizations, and candidates. [Exp. #141.]

Digital Freedom Network *http://www.iia.org/dfn/* Circumventing censorship of published material by posting the works on the Internet. [Exp. #143.]

First Internet McChurch Tabernacle *http://mcchurch.org/mcdonna* At the hub, the core, the virtual beating heart of the WWW. [Exp. #145.]

Garden Of Remembrance *http://www.islandnet.com/~deathnet/garden.html* A way for a family member or friend to be immortalized in cyberspace with a multimedia obituary. [Exp. #145.]

Girvies Davis Home Page *http://www.mcs.net/~bkmurph/girvies.htm* Home page of Girvies Davis, Illinois death row inmate. Clemency petition, articles, "evidence," pictures, audio, more. [Exp. #142.]

Global Campus *http://www.csulb.edu/gc/* Distributed database containing new media for use in enhancing learning and teaching. For educational use. [Exp. #140.]

Global Futures Foundation *http://www.quiknet.com/globalff/globalfu.html* Environmental web site for businesses, with publications and Future 500 CEO resource efficiency roundtable. [Exp. #145.]

Global Ideas Bank *http://newciv.org/worldtrans/BOV/BOVTOP.HTML* International suggestion box for ideas or projects for improving the quality of life. £31,000 annual award. [Exp. #145.]

Golden Retrievers In Cyberspace *http://www.rahul.net/hredlus/golden.html* Information on Golden Retrievers: how to find breeders, rescue groups, GRCA, and more. [Exp. #144.]

Grant Tracker Home Page *http://www.rahul.net/kendric* Software that keeps researchers from overspending their research grants. Download demos: DOS, Win, Mac. [Exp. #141.]

Institute For Global Communications Progressive Directory *http://www.igc.apc.org* [Exp. #145.]

Institute Of Heartmath *http://www.webcom.com/~hrtmath/IHM/AboutHM.html* Research-based training for developing enhanced intuitive intelligence to successfully manage mental and emotional choices. [Exp. #144.]

Interactivist *http://199.172.178.200* A place that facilitates Internet social education and activism. Also the home of Free Burma. [Exp. #141.]

Internet Health Resources *http://www.ihr.com* Extensive and practical health resource information for Internet users. [Exp. #142.]

Libertarian Party Of America *http://www.lp.org/lp/* America's Third Party. [Exp. #145.]

New Civilization Network *http://newciv.org/worldtrans/newcivnet.html* "To make the world a better place." Free space for many nonprofits. [Exp. #145.]

Oceania, The Atlantis Project *http://oceania.org* Want to talk about forming a new country? Come visit us. [Exp. #145.]

ParentsPlace.Com *http://www.parentsplace.com/* The parenting resource center on the Web: reading rooms, chat, shopping mall with parenting and child-care products. [Exp. #143.]

Qui Tam Information Center *http://www.quitam.com* A place for whistleblowers and attorneys to gain information in pursuing qui tam actions. [Exp. #145.]

Remembering Nagasaki *http://www.exploratoruim.edu/ nagasaki* A WWW page and Internet exhibit at the Exploratorium as part of the world's observance of the 50th anniversary of the bombings of Hiroshima and Nagasaki. [Exp. #145.]

Rivendel Pages *http://umbc8.umbc.edu/akhatt1/Rivendel. html* Multiuser chat sites dedicated to communications for global understanding and creative expression. Come visit us. [Exp. #142.]

San Jose State University Continuing Education *http://conted.sjsu.edu/* Degree credit, certificate, and professional development courses open to all adults—on and off campus. [Exp. #142.]

Santa Monica Web *http://www.smweb.com* City of Santa Monica in cyberspace. A city guide featuring visitor information, business directory, news. [Exp. #145.]

Seminars In Usable Design *http://www.infodesign.com/usable.design* Seminars in online information design, UI design, and usability testing. Leaders include William Horton. [Exp. #141.]

Southern California Gay Wired *http://www.gaywired. com/~unity/index.html* The new, interactive source for today's gay and lesbian community in Southern California. [Exp. #145.]

Stanford Center For Tuberculosis Research *http:// molepi.stanford.edu* Research at Stanford University tracking the spread of tuberculosis in San Francisco. [Exp. #140.]

Tax Prophet *http://www.taxprophet.com* The Tax Prophet deciphers the Internal Revenue Code for taxpayers and professionals alike. [Exp. #141.]

This Is True *http://infoark.com/freecom/* Home of the popular "This Is True" newspaper column, which is also available by listserv. [Exp. #144.]

UC Riverside, California Museum Of Photography *http://cmp1.ucr.edu* Historical photographs, contemporary media arts, and children's projects are at the UCR/California Museum of Photography. [Exp. #140.]

UC Santa Cruz Extension Catalog *http://www.ucsc.edu/unex* Quarterly, UCSC Extension provides its catalog of 500 courses, as well as events and information. [Exp. #141.]

USS Liberty Home Page *http://www.halcyon.com/jim/ussliberty/* Information and files about the American ship that was attacked by the Israelis during the Six Day War. [Exp. #143.]

Wellness Essentials *http://voyager.via.net/netbiz/weles.html* The home page of wellness information and nutritional products and more. [Exp. #141.]

Yoga Fitness *http://www.iyouga.com/yf/* Yoga Fitness is the premier Iyengar yoga studio in the South Bay. [Exp. #144.]

you@here.now *http://www.webcom.com/~blessed* Interactive philosophical site that allows you to share your contemporaneous thoughts with your fellow beings. [Exp. #140.]

WEB/INTERNET SERVICES

Bay Area Internet Solutions *http://www.bayarea.net* Full service ISP, specializing in connecting businesses to the Internet. Web design and hosting. (408)447-8690. [Exp. #144.]

Binary Services Solutions *http://www.kaiwan.com/~npham* Provider of Internet home page publishing, FoxPro, and C++ business applications. Free initial consultation. [Exp. #142.]

Bonsai Software *http://www.bonsai.com/* Bonsai Software, Inc.—software consultants, WWW setup, and WWW hosting services. [Exp. #145.]

CCnet Inc. *http://www.ccnet.com* Prices and services for CCnet, an ISP for the Bay Area and Silicon Valley. Excellent resource for home buyers in Contra Costa County. [Exp. #145.]

Creative Element Home Page *http://ocf.berkeley.edu/~daaron/creative.html* Home page for Creative Element, specializing in web production, graphic design, software engineering, and computer consulting. [Exp. #145.]

eCenter *http://www.ecenter.com* Putting businesses on the WWW in Virtual Trade Shows, general categories, email paging, business information. [Exp. #141.]

Fountainhead Internet Systems WWW Site *http://www.earthlink.net/~fountainhead* Designers of World Wide Web sites. Host of the LA Superstation. LA Advertising. [Exp. #141.]

Global Communications Group *http://www.globalcom. com/global* Internet consulting, training, seminars, Web page production. Ten years Internet R&D experience. [Exp. #140.]

Gregory Springer Multimedia *http://www.webcom. com/ ~gsmmedia* Multimedia and home page design. Create Windows .EXEs and Help files for floppy or Internet distribution. [Exp. #145.]

Home Pages, Inc. *http://www.homepages.com/* A full-service WWW authoring firm and creators of the World Wide Yellow Pages at *http://www.yellow.com/* . [Exp. #140.]

HTML To ICADD/Braille *http://www.ucla.edu/ICADD/ html2icadd-form.html* This form allows valid HTML to be transformed to ICADD and/or Braille for print-impaired users. [Exp. #142.]

HYNET Technologies *http://www.hynet.com* Providing unique systems that seamlessly integrate hypertext, smart search engines (HYNET), and databases for CD-ROM and Internet publishing. [Exp. #144.]

I-Comm: Web Surfing Without SLIP/PPP *http://www. best.com/~icomm/icomm.htm* I-Comm is a full-feature graphical WWW browser which doesn't need SLIP/PPP connections. [Exp. #141.]

IKON Communications *http://www.ikon.com* Web page designers—filmmakers with great taste and a sense of humor. [Exp. #145.]

InterBIZnet *http://www.ibiznet.com/* We provide businesses in Southern California with Web design, hosting online marketing, and Internet expertise. [Exp. #143.]

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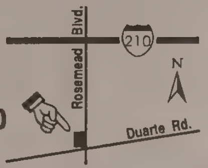

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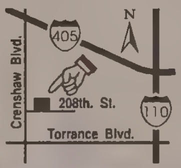

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- MODEM
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- 101 Keyboard
- Mouse
- 14" SVGA Monitor

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14" SVGA Color .28 N.I. Monitor
MSDOS, MS Windows, MS Encarta
MS Golf, MS Cinemania
MS Entertainment, AST Works
Lotus Organizer, Delrina Winfax Lite
Intuit Quicken SE for Windows

$1,299/$1,449

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Speakers, Microphone
101 Keyboard, Serial Mouse
14.4 FAX/MODEM w/ Tlphn Answrg Syst
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1.2 GB EIDE Hard Drive $219.99

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- 2S,1P, 1G Port
- PCI SVGA Card 1Meg
- 1.44 Floppy Drive
- 101 Keyboard Enhanced
- Hi Resolution mouse
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- 14" SVGA monitor N.I. 0.28 dp
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- 8 MB RAM 70ns
- 540 MB Enhanced IDE HDD
- Enhanced PCI Controller Card
- 2S,1P, 1G Port
- PCI SVGA Card 1Meg
- 1.44 Floppy Drive
- 101 Keyboard Enhanced
- Hi Resolution mouse
- Midtower case w/ 230 Watt P/S
- 14" SVGA monitor N.I. 0.28 dp
  Optional Multimedia*

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Pentium System 100 MHz
- 256 k Cache
- 8 MB RAM 70ns
- 540 MB Enhanced IDE HDD
- Enhanced PCI Controller Card
- 2S,1P, 1G Port
- PCI SVGA Card 1Meg
- 1.44 Floppy Drive
- 101 Keyboard Enhanced
- Hi Resolution mouse
- Midtower case w/ 230 Watt P/S
- 14" SVGA monitor N.I. 0.28 dp
  Optional Multimedia*

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- 8 MB RAM 70ns
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- Enhanced PCI Controller Card
- 2S,1P, 1G Port
- PCI SVGA Card 1Meg
- 1.44 Floppy Drive
- 101 Keyboard Enhanced
- Hi Resolution mouse
- Midtower case w/ 230 Watt P/S
- 14" SVGA monitor N.I. 0.28 dp
  Optional Multimedia*

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1.2 GB EIDE	$219.99

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MiniTower case w/ps	$35.00
MidTower case w/ps	$55.00
FullTower case w/ps	$69.00
Desktop case w/ps	$45.00
1.2MB FD 5 ¼"	$35.99
1.44MB FD 3 ½"	$23.99
14.4 FAX/MODEM	$39.99
14.4 FAX/MODEM w/Voice	$49.99
Keyboard 101	$9.99
Mouse Serial	$4.99

486DX4-100 $759.00

486DX4-100 VESA
w/256k Cache
4MB Ram 70 n/s
540 MB Enhanced IDE HD
VLB Graphics Card w/1MB
VLB IDE CARD

DIGITAL Mini Tower
101 Keyboard
1.44MB FDD
14" NI SVGA Monitor .28
Mouse
Optional Multimedia*

486DX2-66 VLB $729.00

486DX2-66 VESA
w/256k Cache
4MB Ram 70 n/s
420 MB IDE HD
VLB Graphics Card w/1MB
VLB IDE CARD

DIGITAL Mini Tower
101 Keyboard
1.44MB FDD
14" NI SVGA Monitor .28
Mouse
Optional Multimedia*

VIDEO CARDS

Diamond Stealth 64VLB 2MB DRAM	$159
Diamond Stealth 64VLB 2MB VRAM	$249
Diamond Stealth 64 PCI 2MB DRAM	$159
Diamond Stealth 64 PCI 2MB VRAM	$259
1MB Trident VLB	$59.99
1MB Trident ISA	$55.99

MEMORY

1 MEG SIMMS 30 Pin	$32.99
4 MEG SIMMS 30 Pin	$119.00
4 MEG 72 Pin	$125.00
8 MEG 72 Pin	$249.00
16 MEG 72 Pin	$459.00

MOTHERBOARDS WITH CPU

486SLC-33	$49.00
486DLC-40 w/Math Co	$89.00
486DX2-66 VLB 256k Cache	$149.00
AMD 486DX4-100	$189.00
Intel 486DX4-100	$239.00
Pentium 75 PCI Intel Triton 256k	$369.00
Pentium 90 PCI Intel Triton 256k	$449.00
Pentium 100 PCI Intel Triton 256k	$489.00
Pentium 120 PCI Intel Triton 256k	$699.00
Pentium 133 PCI Intel Triton 256k	$849.00

TAPE BACKUP

Colorado 250 (internal)	$129.00
Conner 250 w/tape	$129.00
Conner 420 w/tape	$149.00
Conner 850 w/tape	$189.00
Tape cartridge 2120	$12.00

CD ROM DRIVES

CD Rom Panasonic 562 300ms dbl speed	$89.00
Teac 4X	$159.00
Toshiba Quad Speed IDE	$149.00
Mitsumi Quad Speed	$149.00
Toshiba Quad Speed SCSI	$279.00

MULTI MEDIA UPGRADE KITS

Multimedia Kit
- SONY Double Speed CD ROM
- Sound Blaster 16 MCD
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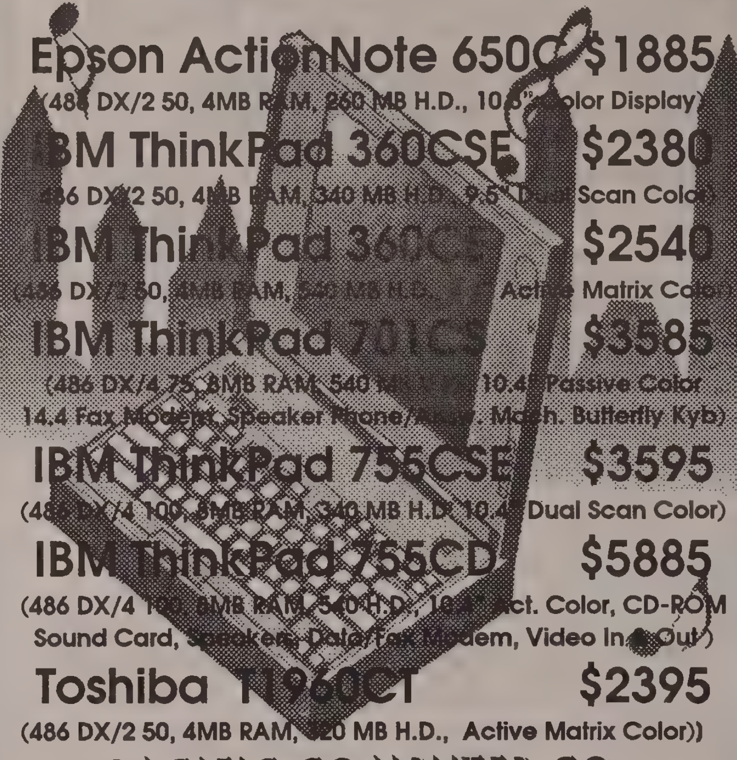

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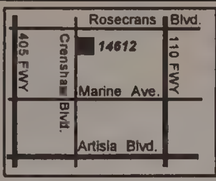

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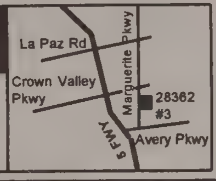

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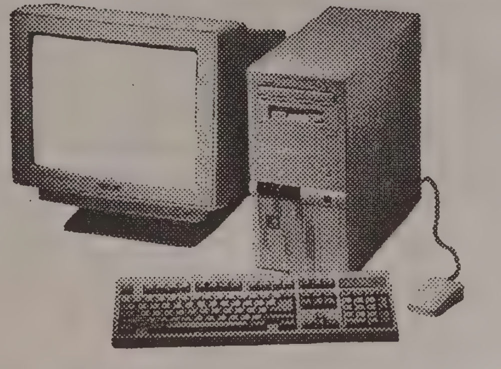

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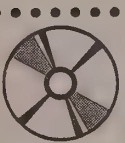

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> Phoebe 96/24 Internal Fax Modem	23
> Phoebe 14.4 Int/Ext Fax Modem	45/69
> Phoebe 28.8 Internal Fax Modem V.Fast	89
> Phoebe 28.8 Int/Ext Fax Modem V.34	119/139
> Phoebe 96/24 Internal Voice Mail Fax Modem	29
> Phoebe 14.4 Internal Fax Modem Voice Mail	55
> Ventel 14.4 External Fax Modem Voice Mail	99
> Supra 14.4 Int/Ext Fax Modem	75/85
> Supra 28.8 Int/Ext Fax Modem V.34	189/219
> Practical Peripherals 14.4 Int/Ext Fax Modem	89/109
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2
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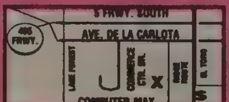

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P5 75	1088	P5 100	1248
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Windows '95 Plug-N-Play

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Intel Triton Motherboard

- **Intel Pentium 75/90/100/120 MHZ**
- **Socket 7, Overdrive** Ready
- 256K External Write-Back Cache
- **Upgrade to Pipeline Burst-Cache** (+ $149)
- **8 MB 72 Pin RAM, MAX 128MB**
- Upgrade to EDO Memory (Add $60)
- **540 MB Enhance IDE Hard Drive**
  (Add $49 for 850MB)
- 3.5" 1.44 MB Floppy Drive
- **15" 1024x768 SVGA NI Monitor (0.28dp)**
- **64-bit PCI Diamond Stealth 64 W/1mb**
- **Enhance Mode 4 IDE Built in**
- Mid Tower Case/250W UL PS
- **2 High Speed IO/16550 Uart Serial**
- **ECP/EPP Enhance Parallel Port**
- Enhanced 101 Keyboard & Mouse

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Tritonic

P5-90	$2158
P5-100	$2258
P5-120	$2558
P5-133	$2758

Intel Triton Motherboard

- **Intel Pentium 75/90/100/120 MHZ**
- **Socket 7, Overdrive** Ready
- 256K External Write-Back Cache
- **Upgrade to Pipeline Burst-Cache** (+ $149)
- **16 MB 72 Pin RAM, MAX 128MB**
- Upgrade to EDO Memory (Add $60)
- **1.2 Gig Enhance IDE Hard Drive**
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- 16-BIT SOUND CARD
- 25 W SPEAKERS
- 20 CD TITLES BUNDLE

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- 4X CD-ROM
- SOUND BLASTER 16
- 25 W SPEAKERS
- 20 CD TITLES BUNDLE

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Our friendly staffs will take the time to help and direct you to system that is right for you. Our TECH support will help you to configure your system free of charge from the day you pick up your system until the day you decide to buy your next system.

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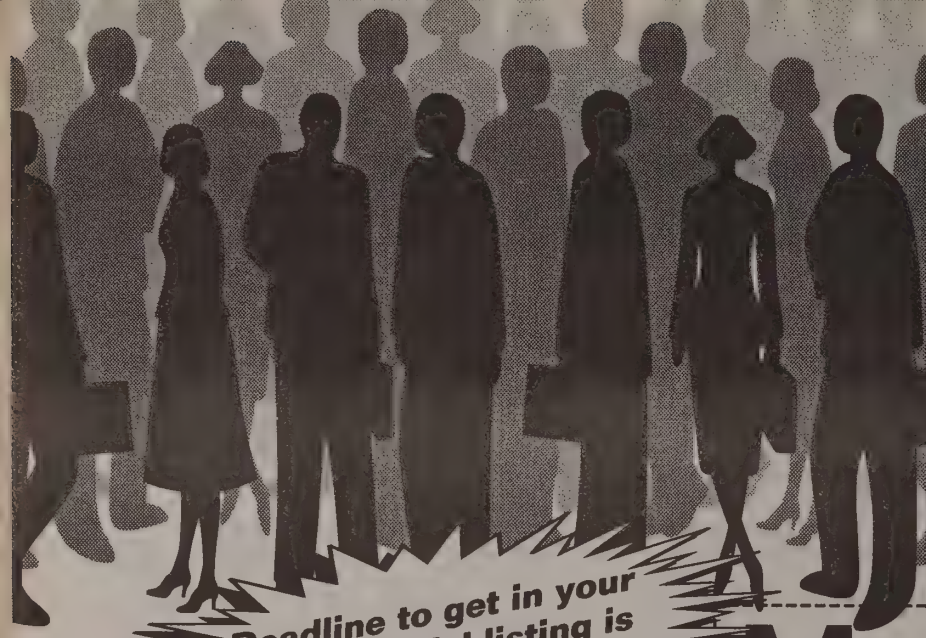
The Fine Print: Prices are reflected on cash discount. Prices are good only with this ad Prices and configurations and availbility are subject to change without notice. All sales are final. Arttech are not responsible for typographical errors



Smart Businesses Plan Ahead:
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1995 California Dealers Guide

Reach Over 500,000* Potential Customers

Deadline to get in your free editorial listing is September 29

It's a Fact:

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Attract customers into your company during the most important selling season and throughout the following year. They will see your listing next to an exciting line-up of editorial features, including our own writers' picks for the best hardware and software products of 1995, *plus* over 30 pages of Buyers Guide announcing new products and special offers.

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- Showcase your company's products and services such as networking, multimedia, database technology, Internet support, and other specialties.
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- Your store's name and other information will be listed alphabetically by geographical area in a separate directory of vendor-authorized sales, service, training and support providers. If you're authorized to provide these services for Novell, IBM, Apple, Sun, Hewlett-Packard, or other name brand products, please give us that information so we can include your name in the vendor-authorized listings.

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Make sure you're part of this important resource to generate the sales that will make your fourth quarter a success! Complete and sign the attached reseller poll form and mail or fax it back by September 29, 1995.

** Figures based on data compiled through an independent reader survey, conducted by Research USA, Inc., May 1995.*

MICROTIMES 1995
7th Annual Reseller Poll

Mail to: Reseller Poll, 3470 Buskirk Ave., Pleasant Hill, CA 94523
Fax: (510) 934-7351
Deadline: September 29, 1995
Please use separate forms for multiple store locations

Store Name: ____________________
Store Manager: ____________________
Address: ____________________
City: ____________ **State:** ____ **Zip:** ______ **Phone:** ____________
Fax: ____________ **email:** ____________ **URL:** ____________

What is your specialty?
☐ Computer hardware
☐ Training
☐ Web Page development
☐ Video
☐ Software
☐ Notebooks
☐ CD Titles
☐ Desktop Publishing
☐ Software development
☐ Networking
☐ Peripherals
☐ Multimedia
☐ Mobile Office
☐ Internet Provider

List your top 3 specialties and in-house expert for each:

Specialty	**Expert**
1. ____________	____________
2. ____________	____________
3. ____________	____________

What software platforms does your business support?
☐ Windows (specify) ____________ ☐ MS-DOS ☐ UNIX ☐ OS/2 ☐ Macintosh
☐ Novell ☐ Workgroup For Windows ☐ Other

What special value-added services (e.g., service, training, support, warranties, return policy, etc.) does your business offer? *(Please keep responses under 25 words or we will edit them to fit available space.)*
____
____
____

Are you a vendor-authorized sales, service, training, and/or support source?
If so, please list up to five vendors (e.g., Apple, IBM, Novell, Hewlett-Packard, Compaq) who have authorized your business to provide these services, and check the areas for which you're authorized.

Vendor	**Sales**	**Service**	**Support**	**Training**
1. ____________	☐	☐	☐	☐
2. ____________	☐	☐	☐	☐
3. ____________	☐	☐	☐	☐
4. ____________	☐	☐	☐	☐
5. ____________	☐	☐	☐	☐

I certify that all the statements made in this survey are true.
Name: ____________ **Signature:** ____________
Title: ____________ **Date:** ____________

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8 MB RAM
1.44MB Floppy Drive
560 MB Hard Drive (E-IDE)
PCI Hard Drive Controller
PCI Windows Accelerator Video Card with 1 MB Max 2 MB
HighSpeed (16550 UART)
2 Serial / 1 Parallel / 1 Game Port
2X Speed CD-ROM
Creative Vibra 16 Bit Sound Card
Amplified Speakers
14" SVGA 1024 x 768 Monitor .28dp N.I.
8 Bays Tower Case, 250W Power Supply
101 Enhanced Keyboard
High Resolution Mouse

PENTIUM-75

$ 1199

PENTIUM-90	$1279
PENTIUM-100	$1379
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486 DX-4 100	CPU & VLB M/B	$199
486 DX-2 66	CPU & PCI M/B	$159
486 DX-4 100	CPU & PCI M/B	$219

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256K Cache 8 MB RAM
1.44MB FD 560 MB HD
VLB IDE HD & FD Controller with 2S/1P/1G
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2X Speed CD-ROM
Creative Vibra 16 Bit Sound Card
Amplified Speakers
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8 Bays Tower Case, 250W Power Supply
101 Enhanced Keyboard
High Resolution Mouse

Nx586 P-80 $1199

Nx586 P-90 $1259

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8 Bays Tower Case, 250W Power Supply
101 Enhanced Keyboard
High Resolution Mouse

PENTIUM-75

$2119

PENTIUM-90	$2199
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256K Cache up to 1MB
Pentium OverDrive & DX-4 Ready
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PCI Windows Accelerator Video Card with 1 MB up to 2 MB
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SB AWE 32	$250

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VLB Cirrus Logic	$69
VLB ET4000	$79
VLB Diamond Stealth SE 1MB	$95
VLB Diamond Stealth 64 1MB	$119
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850 MB IDE	$179
1.0 G.B. IDE	$209
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1.0 G.B. SCSI	$350
2.0 G.B. SCSI	$799
4.0 G.B. F-SCSI	$1250

MODEM

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14.4 VOICE	$55
28.8	$115

PARTS

1.44 FD	$25
1.2 FD	$37
101 KB	$12
Fujitsu KB	$36
Focus 9000	$40
Network Card	$29
Mouse	$ 7
QuickShot Mouse	$ 9
QuickShot Joysrick	$10
MS-Mouse	$25

MONITOR

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17" MAG DX-F .26 NI LR	$595
17" KFC .28 NI	$535

TERMS & CONDITIONS

All Systems carry 2 years labor & 1 year parts warranty. All Prices reflect a 3% cash discount. Prices and availability subject to change without notice.

AMIGA *continued from page 168*

channel images. These can be used with the Switcher to key ToasterPaint graphics over live video. You can also use them in LightWave. Unfortunately, this feature was not fully implemented in my version.

There appear to be some tools to batch-process Flyer clips for operations like tinting. However, without a Flyer board I was unable to determine what the tools did.

NewTek has addressed many complaints on ToasterPaint and done a better job of integrating it into the Toaster's suite of tools. However, it is still a very basic (though solid) paint package. If you need more advanced features, Innovision's AlphaPaint (reviewed two months ago) is still the way to go, and appears to be compatible with the Toaster 4.0 software. Thank Goodness!

TOASTERCG

The Toaster's Character Generator has gone through some significant changes too. Previously you had a choice of whether CG Pages were rendered on the fly or loaded from prerendered buffer Pages—the latter providing much quicker access. However, you had to go through the often painstakingly slow process of loading all of the Pages in a project's Book, even if you only needed one Page. The new Switcher requires all CG Pages to be prerendered.

The concept of Books still exists, but now acts more as a way to archive sets of Pages. ToasterCG now supports ARexx, and the nice folks at NewTek have provided a macro that individually renders and saves each Page in a Book. This could save you a lot of time if you have a "stack" of existing books that you need to use with the 4.0 ToasterCG.

In fact, there are a bunch of helpful ARexx scripts included with the package. There is even a spell-check macro, but it is slow as molasses.

As with ToasterPaint, ToasterCG now gives you control over height, width, shear (slant), and rotation of PostScript fonts. Sizing is accomplished by dragging a sizing gadget, but rotation and slant must be typed in. It is not as interactive as I'd like it to be, but the results are stunning. A nice new feature involves the display of brushes—the basic shape of the brush is now displayed in gray within the outline box. This should help a great deal when you are trying to align things on a Page.

RESOURCES:

Toaster 4.0:
CD-ROM, $549
floppy disks, $595
NewTek
1201 South West Executive Dr.
Topeka, KS 66615
1-800-847-6111

CHROMAFX

The only real change to the ChromaFX screen appears to be the addition of load and save effect buttons. Similar to the new ToasterCG, to use

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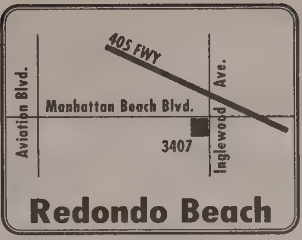

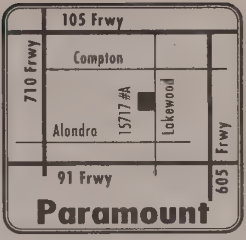

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- Mid Tower Case /230 PS
- 1.44 MB FD
- 8MB EDO ENHANCED D-RAM
- 15" SVGA NI .28 Color Monitor
- Mouse • 101 Keyboard
- SVGA PCI 1MB S3 Graphic Card
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ChromaFXs with the new Switcher, you have to save the rendered effect to file first.

HIIP

Toaster applications will be supporting a variety of image formats using something NewTek calls "Hiip" (Host Independent Imaging Protocol). In reality, these are most of the Art Department Professional (Elastic Reality) loaders and savers, including Alias, BMP, Framestore, IFF, JPEG, PCX, PICT, SGI, SoftImage, TARGA, TIFF, Wavefront, YUV, and many more. This will be implemented in the final 4.0 release.

FUNKY NAMES

Gone is the funky naming convention for Framestores, CG Pages, Projects, etc. used in prior Toaster versions. You can basically name things anything you want, but you'll want to make sure you use logically named subdirectories to make them easier to find later.

Amiga Update

While ESCOM originally indicated that Amigas would be built in China, plans have changed and (at least initially) they will be built in the US. (It seems it would have taken a year or so to get production going following the original plan.)

Creative Equipment International has already announced that it will distribute the new Amiga line in the US, beginning with the Amiga 4000T (Tower) due out around September. This machine uses a 25MHz 68040 CPU (still) with 6MB of RAM and a 540MB hard disk. The prototype 4000T that Commodore showed in late 1993 had two video slots, three Zorro III slots, and a built-in SCSI II controller. No word on the exact configuration of the ESCOM version. The tower case has a lot more room for hard drives, so this should be the perfect home for a Flyer. The street price is expected to be around $3499.

The price seems a bit high, but results from a perceived pent-up demand for tower A4000s, which Commodore announced but never brought to market, as well as a small initial production run. Although some speculate that prices will quickly drop, I think it's more likely that newer models will soon follow with features like an '060, CD-ROM, larger drive, etc. ESCOM is just trying to keep its promise and get something out of the door. Note that these computers are not from old inventory; they will be newly manufactured machines. ■

INSTALLATION

Toaster 4.0 is available on a CD-ROM or sixty floppy disks. (That's right. 60!) You have your choice, but note that the CD-ROM will contain more effects and other supplemental files.

The objective of the floppy-disk version was to give users without CD-ROM drives the new Interface, ToasterPaint, ToasterCG, etc. but content only up to the level of v3.1. If there was ever a good reason to

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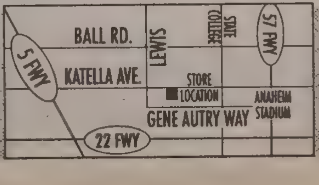

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The installation script indicates a full installation takes up a whopping 446,168,473 bytes of disk space! However, on my A4000 only about 300MB were actually used. (Still, it's a sizable chunk of hard drive space.) Fortunately, you can pick and choose what you want installed.

The Toaster software directory structure has been changed; everything is now set up under a directory called "NewTek." There are about 150MB of effects included if you install them all, not to mention a ton of Preview Anims, Framestores, and images. Over 9MB of LightWave objects are provided. If you have the disk space, I'd recommend you install everything and later delete what you don't think you'll need.

You may just want to increase your storage capacity anyway, however. The new Toaster has an appetite for space. CG Pages, Framestores, Previews, ChromaFX filters, etc. all need room, now more than ever! If you ever needed a good reason to get that 1GB drive, here it is.

If you are upgrading, note that none of the FontBank PostScript fonts are included, but there are 34MB of color fonts. So be sure to hang on to your old fonts.

MISSING IN ACTION

One feature I really miss is the Control-Control-Alt-Alt keystroke sequence that got you out of the Switcher and back to the Workbench. There is probably another way out, but I have yet to discover it. If you use an A4000, you might even miss the colorful "Please Stand By" logo, which has been replaced by a simplified grayscale logo.

Since I was kind of flying blind without a manual and using pre-release software, I've probably missed some new features. However, make no mistake, this is a major upgrade and well worth the upgrade cost, even if you don't have or plan to get a Flyer. Next month I hope to finally take a close look at the Flyer, which is supposed to be winging its way to my home at this very second! ■

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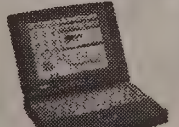

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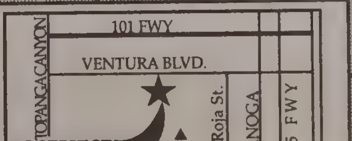

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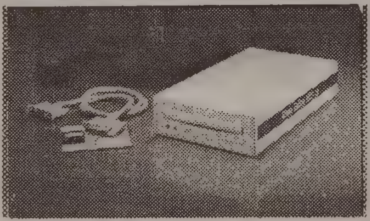

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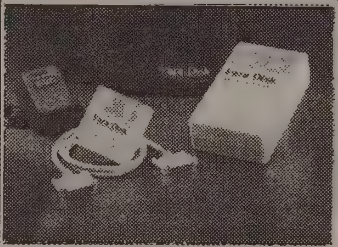

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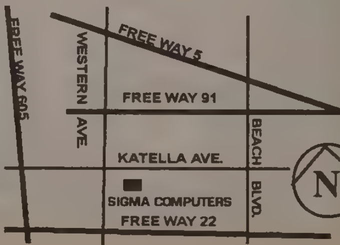

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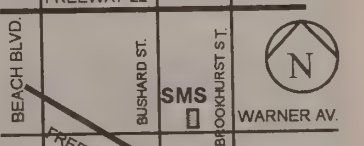

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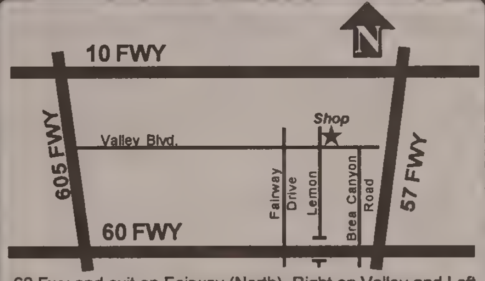

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One of the most promising applications for wireless communications right now in China looks like electronic funds transfer and point-of-sale opportunities; it's so hard to get phone lines installed in China that if you could just do credit card verification over a little point-of-sale terminal real fast, that would solve such a great need in China right now that there's a huge market right there, even for something as mundane as that. There's a lot of neat applications around the world.

IS THAT THE KIND OF PROBLEM MOTOROLA WOULD WORK ON ITSELF OR FIND PARTNERS?

It's the kind of thing we'd work with third parties to solve. But all the applications I've mentioned are under development as we speak. I think the advancement of the market with some open platforms and a little bit of cooperation across the industry is all that it takes.

ARE REGULATORY ISSUES OF ANY PARTICULAR CONCERN TO YOU?

The biggest regulatory issues that we care a lot about are the allocation of spectrum for wireless data communications. If there isn't spectrum license for an operator to have for wireless data, then there's not a market for somebody to invest in putting up the base stations and antennas and so forth.

SO YOU'RE IN FAVOR OF TAKING PREVIOUSLY UNRESTRICTED SPECTRUM AND AUCTIONING IT?

Well, in this country there has been some pretty good licensing activities for spectrum. We do have spectrum assigned; we could always use more, of course, but we're very much in favor of this whole auctioning process for license spectrum, and we're also in favor of some portions of the radio frequency spectrum being unlicensed.

The way we prefer to approach it, and I think the FCC's approaching it this way, is that licensed spectrum is particularly relevant where someone wants to make a business out of operating a network, let's say for nationwide coverage. Because by guaranteeing somebody free spectrum in that place, that allows somebody to offer a high-quality service. If it's unlicensed spectrum, that means lots of people are sharing the spectrum; no network operator in their right mind would put up a service there, because you can't guarantee the quality of the service.

Licensed spectrum is good if somebody needs to put up, say, base stations every five miles, like for the Envoy, in order to operate a service. Unlicensed spectrum is good for things like wireless PBXes, or wireless local area networks—if you want to take your LAN and make it work wireless for a campus environment, or you just want to put up a couple little base stations inside your office and let them work, that's what unlicensed spectrum is good for; you shouldn't have to apply for a license there, since nobody's trying to make a business out of operating that just in your office.

WHAT PORTION OF WIRELESS COMMUNICATIONS DO YOU SEE INVOLVING THE INTERNET?

We think the notion of wireless email, wireless messaging through the Internet, is a pretty powerful one. Today on the Envoy and the Marco there's a service called RadioMail that is an Internet-based wireless messaging service. You can send email to and from anybody on the Internet wirelessly.

WHAT ABOUT DATA SECURITY AND ENCRYPTION?

Certainly the Envoy and Marco today support Internet-based email, and that is not secure. That is an issue, that's a problem. We have to fix that, and we have to add security to that Internet-based communication, for those who want it. It's a requirement for Internet-based communications, let's say, within a corporation.

Outside the walls of an organization it's pretty tough to get the security to work if you want ubiquitous communications.

There will be other services. Just now on the Marco there's QuickMail from CE Software. That goes over ARDIS, and it's not encrypted per se, but it's pretty secure because it's a packet data network, and it's secure from the ARDIS network to your local QuickMail server. There's nothing inherent in these devices that says they have to be insecure, but when the email service uses the Internet as a backbone, then security becomes an issue.

WHAT ARE THE TECHNICAL CHALLENGES THAT HAVE TO BE OVERCOME IN ORDER FOR WIRELESS TO BECOME A MAINSTREAM PRODUCT?

I think the biggest challenges have to do with assimilating technology into the marketplace, which is an interactive process of users knowing more about what they want, and learning more about the technology, and the people making the things learning more about what users want and adapting the technology. Those are the most challenging hurdles that there are, working that process.

Could things be cheaper? Absolutely. Could they be faster? Sure. There's lots and lots of room for technological improvement, but I think the basics are there in order to get going right now. I don't think it's the case that if we could just get to $500, if we could just get to much higher performance, if we could just get to these things then we'd be there...

My point is that the act of iteration will get you to the lower price points and the higher speeds and the better functionality. It's not just that if you could just declare what that one sweet spot is and just do that, we're all done.

I might suggest that we could do a lot of good stuff with plain old modem technology when you can have ISDN at home. I'm fortunate enough to have an ISDN line in my home, which I love. My life just got a whole lot better, but yes, I'm still doing mostly email from home. It's a little bit faster, and I do have the ability to surf the net when I didn't have that ability before the ISDN line.

Incremental changes in technology can certainly bring quantum leaps in functionality. But I think we've got enough to get started, and yes, we do need the incremental changes. ■

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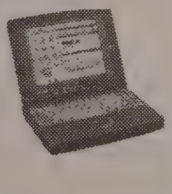

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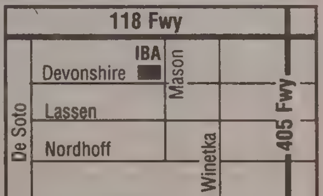

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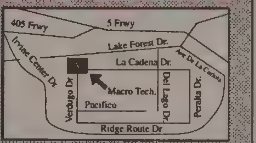

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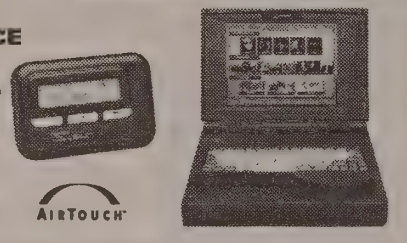

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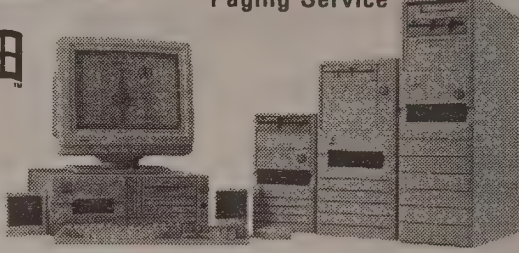

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Network Access

continued from page 124...

organizations, have sought to resolve access to the Internet and to community information by providing online services free or at very low cost. But, if they are located in rural areas, their users are likely to incur costs just to reach them. Community networks also face wired connection costs. As a result, they rely on subsidies to support their operations.

Wireless technologies can resolve these access problems because they eliminate the need to install wires across the country to connect everyone. Thus, they are substantially less expensive to deploy.

Wireless is likely to be much more affordable for end-users also—Dewayne Hendricks envisions end-user devices as being in the $500 range within the next few years. As he points out, that's a one-time cost, compared to monthly fees to a phone company. This assumes the existence of reliable public access spectrum to keep the access costs down, and to encourage the development of wireless devices that can support high-bandwidth applications.

A Design Proposal

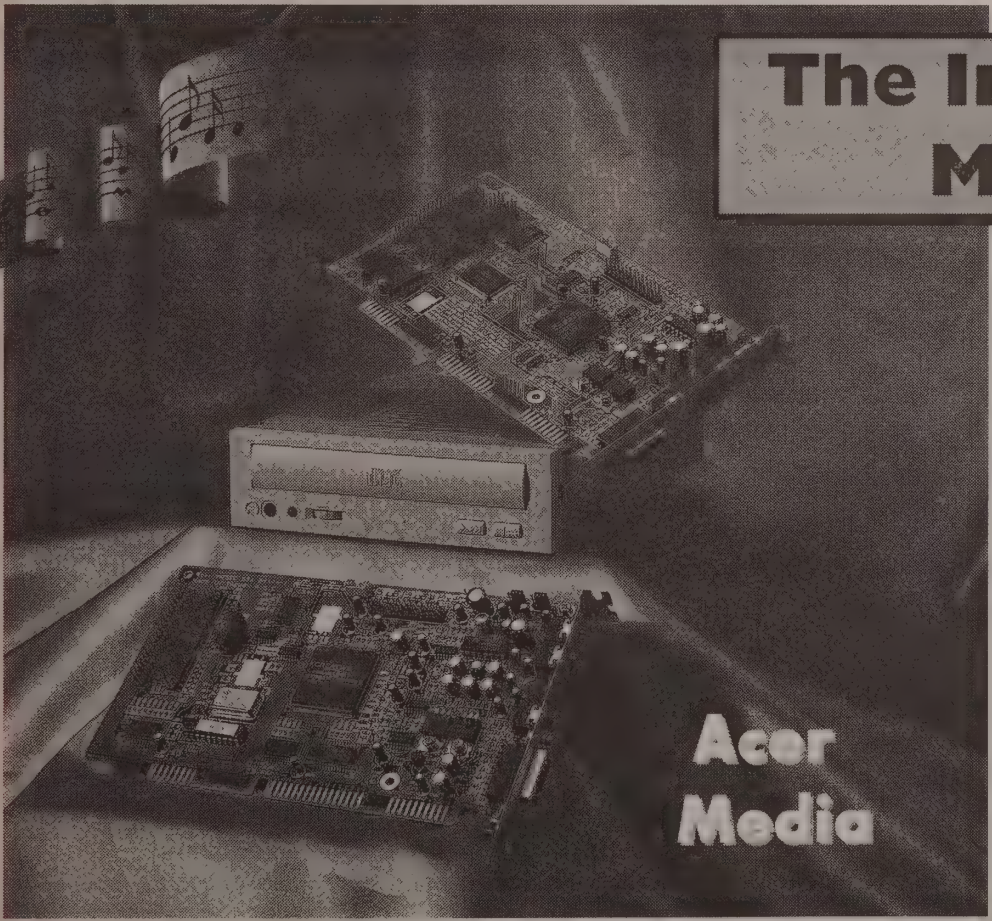
As the Apple petition envisions it, the NII Band is a large band of spectrum, specifically allocated for unlicensed public access use and protected to provide for reliable end-user communications and to avoid interference with other uses. The NII Band, unlike most existing bands, will be designed for absolute equality of access, up to extended distances of 10–15 kilometers.

High-capacity bandwidth is necessary, the petition says, to accommodate lots of users and multimedia transmissions. It proposes that the NII Band be in the 5GHz range, and comprised of the 5150–5300MHz band, which has been allocated in Europe for unlicensed wireless local area networks (HIPERLAN) and the 5725–5875MHz band, which is currently used by unlicensed technologies; industrial, scientific, and medical (ISM) devices; and amateur operators. Using the band allocated for HIPERLAN can promote connectivity and business between the United States and Europe; the 5725–5875 band can be comfortably shared with existing uses if need be.

The spectrum must be unlicensed to avoid additional costs to end-users which could preclude their participation. Unlicensed spectrum allows any manufacturer who conforms to the minimum FCC standard to produce wireless devices that can then be sold and used by anyone. Diversity in the marketplace should mean better quality and more affordable equipment for end-users.

Unlicensed spectrum also means users don't have to pay for licenses. Aside from reduced costs, unlicensed spectrum facilitates flexible, independent use; we will be able to create communication networks ourselves, as we need them. And, importantly, unlicensed operation has a built-in assumption of equal access for all.

Equal access to the NII Band will be further enforced by the transmission technology used. The Apple petition recommends using packet



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Network Access continued...

switching (connectionless) information transport. Packet switching breaks data into small packets that are easily sent over the network and reassembled on the other end, a method that precludes large-bandwidth transmissions from monopolizing bandwidth.

The petition further argues for rules to be developed that would prohibit devices that prioritize packet transmission; as well as centralized gatekeepers that could authorize a hierarchy among packets. Apple points out that users requiring priority services can obtain them in other spectrum bands.

To accommodate a critical component of equal access—connecting users who live in rural areas without additional fees—the petition proposes that directional antennas be allowed to extend the transmission range 10–15 kilometers, without incurring power penalties. Such a setup would enable rural community networks to affordably connect users who are widely dispersed.

In fact, the long distance provision of the Apple petition was changed based on input from the community network movement. At a recent community networks conference called Ties That Bind, sponsored by Apple Computer and the Morino Institute, attendees were told that Apple had successfully petitioned the FCC for unlicensed wireless spectrum that could only carry a 50-meter range (Data PCS).

The speaker was virtually lynched on the spot. The participants told Apple they needed to be able to reach across town; and that to create sustainable systems they needed to develop a wireless local infrastructure across rural distances. Apple listened, and then altered the petition.

If It's Public Access, Who Runs It?

The Apple petition proposes that technical design and policy for the NII Band be developed by a group of industry advisors. So does a similar, but less expansive, petition for unlicensed spectrum submitted to the FCC by WINForum, an industry consortium whose members include AT&T, Northern Telecom, Motorola, Rockwell International, and others. The group will be necessary not only to develop ground rules, but to amend them to ensure equal access and protect from abuse, once the NII Band is in use.

According to Hendricks, however, Apple's idea is that the group be fairly open, like the Internet Engineering Task Force; "anybody can go to the IETF, not just technical people."

> THE SPECTRUM MUST BE UNLICENSED TO AVOID ADDITIONAL COSTS TO END-USERS WHICH COULD PRECLUDE THEIR PARTICIPATION.

In the meantime, the NII Band will require public support if it is to be realized. To obtain a copy of Apple's petition, and information about contacting the FCC, see Jim Warren's article elsewhere in this issue.

The NII Band proposal outlines an approach to the National Information Infrastructure that would have a profound impact on how our country communicates and distributes information, by putting affordable tools in our hands to use as we see fit. Such an approach is a tremendous step for democratic communications, and means a realignment of power in the communications technology business. If we want it, we must act, now and as it builds. ■

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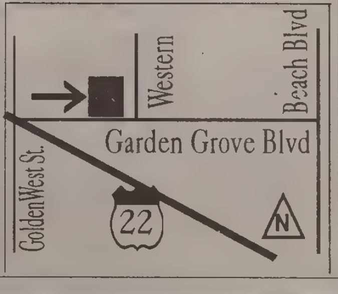

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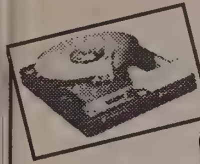

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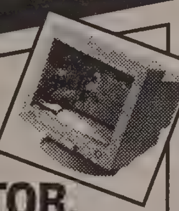

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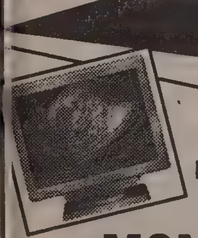

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Telecommuting

continued from page 56

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From a personal point of view, it's important to do something about security because in the event the situation turns ugly and there's a lawsuit against you, your history of sincere efforts to provide a reasonable level of protection can significantly lower your liability, when compared with what you might be asked to pay if you had done nothing about security.

Telecommuting In The Entertainment Industry

No, we're not at the point where Marlon Brando can phone in his next film performance from his private island in the South Pacific, but there are more and more opportunities to work in the "entertainment industry" via telecommuting.

Right now one of the most exciting new developments is called E.D.-Net, the San Francisco-based Entertainment Digital Network. The system uses fiber-optic cables and digital signaling equipment to interconnect some eighty film- and music-industry sound studios and editing centers.

The digital connections carry high-quality audio, video, and multimedia data from one facility—even one city—to another. The result is that musicians can record a song in one place, have it edited and mixed in another place, and have it made into CDs in a third place—all without anyone having to climb aboard a jet plane or even drive their car more than a few miles.

One early example of E.D.-Net in action was Ben Kingsley's work rerecording several spoken parts for the film Searching for Bobby Fischer. He worked from London, while the editing was done in Hollywood. E.D.-Net has helped with other projects, too, such as Tom Selleck recording his speaking parts for some AT&T commercials, and Frank Sinatra singing duets with Liza Minelli in Brazil and with Bono in New York.

Lucas Digital's Skywalker Sound South facility, in Santa Monica, California, is connected to its Northern California sister facility by E.D.-Net lines, which allows directors like Ron Howard to control dubbing work and supervise audio mixes from hundreds of miles away, as he did for the film *Backdraft*.

E.D.-Net says entertainers are showing more and more preference for working from rural and resort areas, closer to their families, without the usual long commutes to production centers like Los Angeles and New York. Sites on the digital network can provide all the same functions as the central sound studio, except that the microphone or camera cable is thousands of miles long.

Even individuals are logging onto the network. Gloria Estefan, an adventurous and high-spirited singer, will reportedly fork over nearly $10,000 to permanently connect her in-home studio to the E.D.-Net system. For video connections, the costs can run to double that amount.

As computer equipment and network costs continue to come down, expect more and more industries to find digital telecommuting systems like E.D.-Net far less expensive than the heavy costs and personal hassles associated with physical travel to distant locations.

For more information, contact E.D.-Net at (415)274-8800.

Telecommute '95 Conference

November 7–10, 1995, are the dates for Telecommute '95, the high-level conference sponsored annually by Gil Gordon, this year in conjunction with 3COM and the Incoming Calls Management Institute.

Sessions will cover the telecommuting-related aspects of such topics as: Staffing the Virtual Organization; Deconstructing Corporate Real Estate; Hoteled Office Space; ISDN; Using the Internet; Moving From Pilot Projects to Production Implementations; Office Design; Cost-Benefit Analysis; and Evaluations; along with Case Studies of such firms as Chiat/Day and Aegon Insurance.

Scott Adams, creator of the "Dilbert" comic strip which last year featured several days' worth of jokes about telecommuters, will be on hand to offer special insights and more than a few laughs.

Those interested in receiving more details about the Telecommute '95 Conference can obtain an announcement and registration package by calling 1-800-854-0056 (or faxing 410/267-0962). ■

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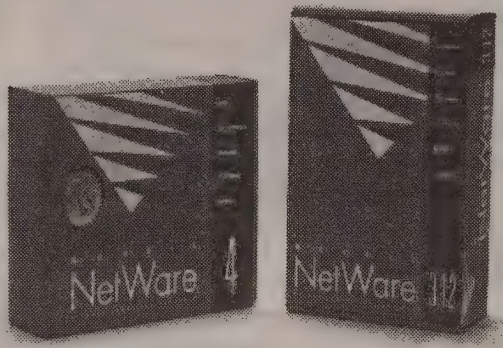

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UNIX *continued from page 59*

This command will print any lines in the ls_script file that contain the pattern "ls." Of course, the problem is how to execute the line that grep prints.

One crude (but effective) way of doing this is to redirect the output of the grep command above to a file and then execute the file. Between these two steps, an additional command may be needed to make the file executable. The entire sequence looks like this:

```
grep ls very_long_script > ls_script chmod 700 ls_script ls_script
```

This is a lot of typing for very meager results, and it is not clever enough to count as a Stupid UNIX Trick.

Using a pipe to connect the grep command to a shell gets the same work done with fewer commands:

```
grep ls very_long_script | csh
```

The shell is looking for command names to execute and "ls" fills the bill. When the shell gets grep's output, it executes an ls command and returns the contents of the current directory.

As a way to invoke "ls," this is not terribly clever either, but the longer the command, the cleverer it gets. Imagine that the command to be executed is something like the following:

```
/usr/local/openwin3.0/bin/cm -geometry 495x459+414+222 -icon_position 68x64+275+ -3 -iconic -reverse &
```

Cm is a GUI calendar management program for Openwindows, and this sort of command line occurs routinely in Openwindows configuration files (usually named ".openwin-init"). Grep can be used to isolate a command from the .openwin-init file, and piping the output of grep to a shell will cause the isolated command to be executed:

```
grep cm .openwin-init | csh
```

Before executing cm this way, run the grep command by itself to be sure it isolates only the command you want to invoke.

Using grep-pipe-to-csh to invoke lengthy commands may be acceptably clever, but there are certain purists who will have a hissy fit over this because it requires starting up a second shell.

In an expansive mood a purist will argue that the second shell is redundant (after all, you were already running a shell) and that starting a new process takes some time and uses some additional system resources. More likely, the purist will simply assert that it's "inelegant" and walk off in a huff.

C shell users have an easy solution to the second shell problem using the "source" command: "Source" is a C shell built-in command that opens a shell script and executes the commands it contains in the current shell. The following sequence shows how to use "source" to execute the calendar manager mentioned above:

```
grep cm .openwin-init > my_cm source my_cm
```

While this addresses the "extra shell" problem, it doesn't really win any additional points for elegance or cleverness. After all, it requires two commands, and it risks the proliferation of messy little files which are almost as offensive to purists as redundant processes.

The people who designed UNIX realized that you might want to do more with the output of a command than stick it in a file or pipe it to another command. Sometimes, for example, it's handy to nest the output of one command in the middle of the command line that invokes something else.

You can do this by enclosing the "nested" command in backquotes (`...`). (If your keyboard has a "~" key, backquote is the character that's

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printed when you press this key unshifted.)

Using the calendar manager example above, you could insert the output of “grep cm .openwin-init” into another command line by putting the grep command in backquotes. One way to test this is to use the “echo” command. All echo does is display the arguments on its command line, so the following command will show the resolution of the backquoted grep command:

```
echo `grep cm .openwin-init`
```

Since the objective is to run the command line that grep returns, it’s very tempting to give the shell the backquoted grep command by itself:

```
`grep cm .openwin-init`
```

If this worked, it would be elegant and supremely clever, a Stupid UNIX Trick of the highest order. Regrettably, it doesn’t work: it returns an error message stating that the command in backquotes is ambiguous.

Just a step below supremely clever, however, there is a built-in command common to all the UNIX shells that lets you pass something to the current shell as input. This built-in is “eval,” one of the commands that everyone encounters in someone else’s shell scripts and that relatively few people understand.

Eval reads the arguments on its command line and performs any variable or command substitution that the arguments call for. The result of this evaluation is then passed to the current shell for execution. If eval’s arguments don’t contain any variables or command substitutions, the arguments are passed to the shell unchanged. This means that something like:

```
eval ls
```

will just execute an “ls” command.

On the other hand, if the arguments to eval contain any “backquoted” command, these will be resolved before eval passes its arguments to the current shell. In order to execute the output of a grep command, simply present the backquoted grep command as an argument to eval. The following command line will execute the calendar manager command found in .openwin-init:

```
eval `grep cm .openwin-init`
```

Eval is closely related to the C shell’s “source” command discussed above and to the “exec” command. In some versions of UNIX the three share a single article in the online manual. Exec is similar to eval, but executes its arguments *in place of* the current shell. This may be fine if you’re running a GUI application like cm (which expects to continue running until you exit from it). It’s not so wonderful if you’re running a program like “ls” that does something and exits immediately.

This use of “eval” approaches the elegance and cleverness of a genuine Stupid UNIX Trick: it does what’s wanted, it doesn’t leave any residual files around to be cleaned up later, it doesn’t start any redundant processes, and it uses a feature of the UNIX shell that is both universal and not widely understood. It has the additional virtue of using an obscure character on the keyboard.

When I happily reported this finding to the caller, she promptly pushed it over the top by writing an alias that executed the eval command above. ■

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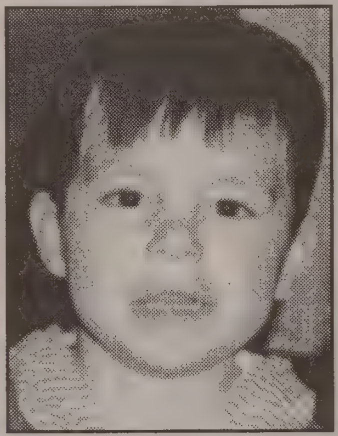

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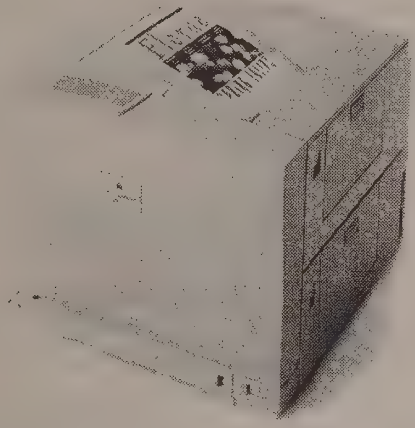

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Reviews

Macintosh Software Review

StuffIt Deluxe 3.5
Desktop Tools

Published By: Aladdin Systems

List Price: StuffIt, $129.95; Desktop Tools, $89.95

Reviewed By: Matthew Leeds

Aladdin Systems has long understood what it takes to be successful in the Macintosh software market. Their continuing support of the user community by releasing and supporting freeware tools that integrate with their commercial tools is a model for other developers to follow. StuffIt Deluxe is the standard by which other commercial compression products are judged. Version 3.5 adds PowerMac native support, better hard drive compression, and support for drag and drop applets for easy compression and expansion in the Finder.

Also added is extensive AppleScript support, extensions for QuicKeys and XTND file-conversion, XCMDs for HyperCard, and support for PowerTalk. Magic Menu, a Finder menu addition, has been improved. Drag and drop support also lets you just drag items out of an archive window onto the desktop or into a folder; they are automatically decompressed. You can also compress items by dragging them into an existing archive. StuffIt Deluxe includes StuffIt SpaceSaver, a hard drive compression utility.

Aladdin Desktop Tools is a collection of seven utilities that assist with file management and basic Finder actions such as copying, moving, printing, and deleting files. It includes: Desktop Speedboost which eliminates the delays that occur while copying, duplicating, or trashing files by making these events occur in the background. Desktop Shortcut which modifies the open file dialog and adds new features that let you find files and folders faster. Desktop Viewer which lets you view the contents of files without needing the application that created them. Desktop Printer which creates printer icons that let you switch among different printers without visiting the Chooser. Desktop Makeover which

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continued from page 218...

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List Price: $129
Reviewed By: Matthew Leeds

Squizz is a plug-in for Photoshop and other programs that accept Photoshop plug-ins. It provides two methods of distorting images either using a grid to create a warp template, or real-time distortions using a brush tool. It works on a proxy of your image until you've finished all your manipulations, then it renders a final image at the full resolution of your original. This lets it operate much faster than if it had to move megabytes of data. Two versions are available, either 68K or PowerMac native.

Squizz is an excellent tool. You can create some remarkable distortions just by brushing across an image. The brush is adjustable for size and opacity, and a progressive undo lets you step back through your modifications. However, a remarkably bad manual and two layers of copy protection mar this otherwise useful product. While serial number entry is acceptable, the installation of a software 'key' on your hard drive is not. These types of key disk protection schemes have a long history of causing problems and have no place on professional tools. You'll have to decide if you can accept the risk that you might lose the ability to use a tool you've grown accustomed to at an inopportune time. (Human Software Co., 14407 Big Basin Way, PO B ox 2280. Saratoga, CA 95070. 408/741-5101.

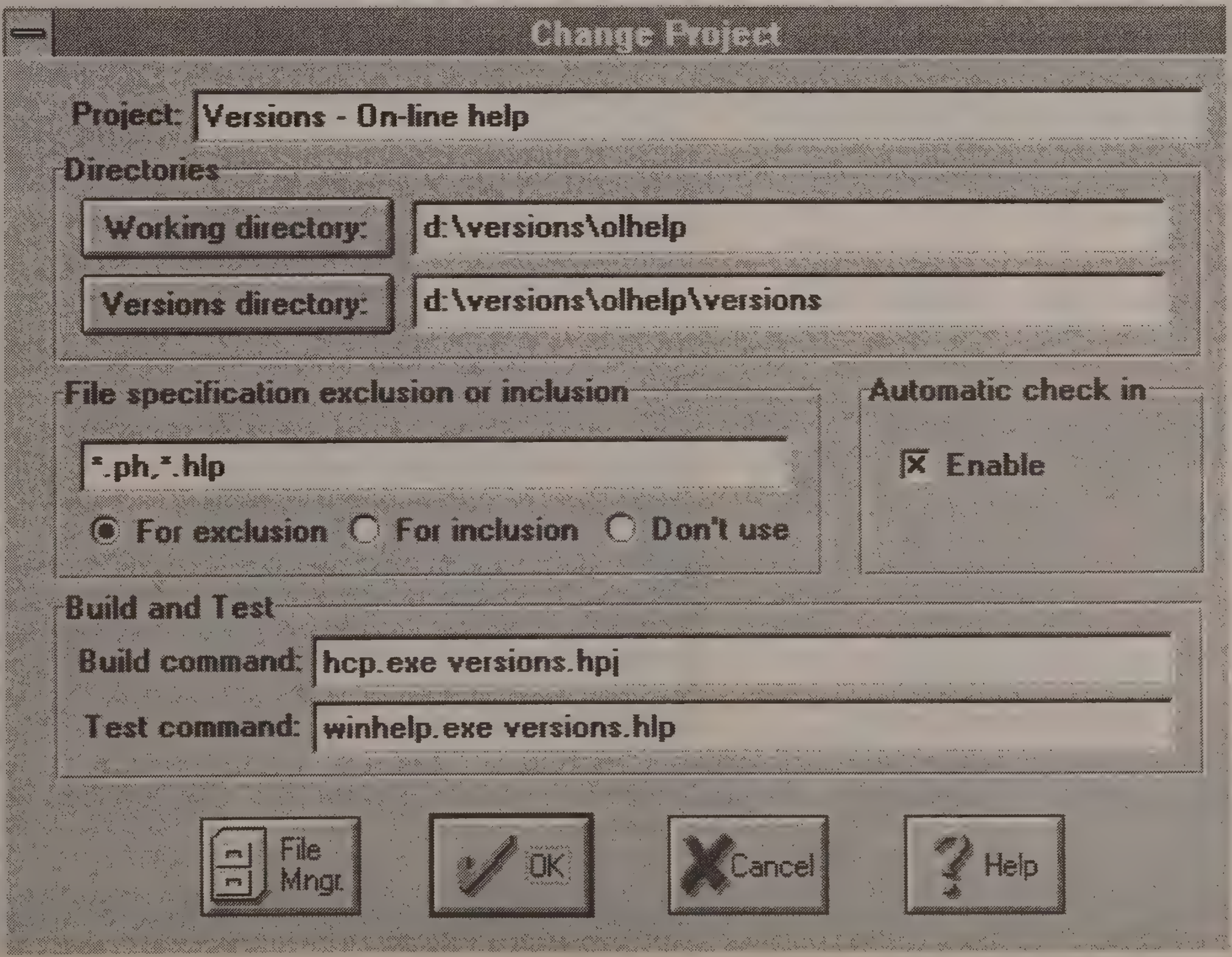
Windows Software Review

Versions for Documents—Team Document Creation and Control

Published By: Starbase Corp.
For: Windows
List Price: $129
Reviewed By: Pamela Mason

Poor or nonexistent tracking revisions of a document is about as hot a topic as you'll find right now in any organization where there are shared files among workgroups. It is often a source of contention and blame among employees because of wasted hours spent reworking files, finding lost files, or recreating old versions of files. Versions for Documents is a project-oriented version control system that addresses many of the problems inherent in multi-user environments.

Two of the problems as explained in the manual: "1) Too many cooks. If you are producing documentation or advertising and writers, editors, layout artists, and technical staff all need to access the same file. How can you be sure that each member is working on the same version of file? 2) Change and change again. Whether it's your client or your boss who orders all those changes, what do you do when you want to change back?"



Change Project

Project: Versions - On-line help

Directories

Working directory: d:\versions\olhelp

Versions directory: d:\versions\olhelp\versions

File specification exclusion or inclusion: *.ph,*.hlp

● For exclusion ○ For inclusion ○ Don't use

Automatic check in: ☒ Enable

Build and Test

Build command: hcp.exe versions.hpj

Test command: winhelp.exe versions.hlp

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intel inside

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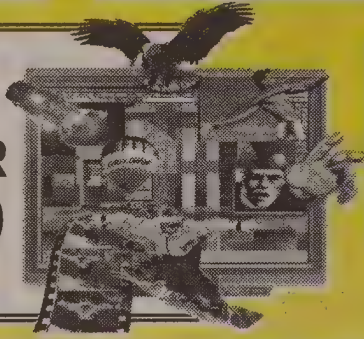

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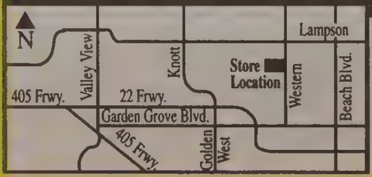

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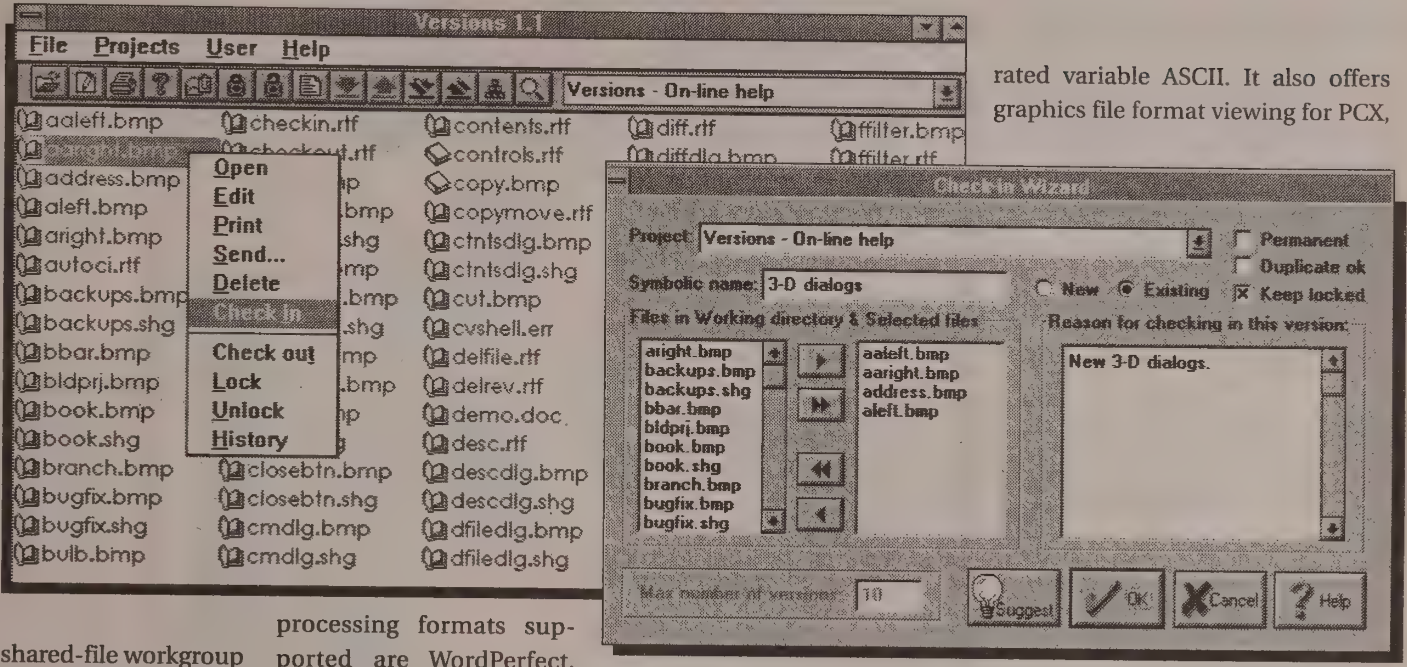
continued from page 218...


Versions 1.1
File Projects User Help
Versions - On-line help
aaleft.bmp
aaright.bmp
address.bmp
aleft.bmp
aright.bmp
autoci.rtf
backups.bmp
backups.shg
bbar.bmp
bldprj.bmp
book.bmp
book.shg
branch.bmp
bugfix.bmp
bugfix.shg
bulb.bmp
checkin.rtf
checkout.rtf
closebtn.bmp
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cmdlg.bmp
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contents.rtf
controls.rtf
copy.bmp
copymove.rtf
ctntsdlg.bmp
ctntsdlg.shg
cut.bmp
cvshell.err
delfile.rtf
delrev.rtf
demo.doc
desc.rtf
descdlg.bmp
descdlg.shg
dfiledlg.bmp
dfiledlg.shg
diff.rtf
diffdlg.bmp
ffilter.bmp
ffilter.rtf
Open
Edit
Print
Send...
Delete
Check in
Check out
Lock
Unlock
History
Check-in Wizard
Files in Working directory & Selected files
aright.bmp
backups.bmp
backups.shg
bbar.bmp
bldprj.bmp
book.bmp
book.shg
branch.bmp
bugfix.bmp
bugfix.shg
aaleft.bmp
aaright.bmp
address.bmp
aleft.bmp
Suggest
OK
Cancel
Help

Project: Versions - On-line help

Symbolic name: 3-D dialogs

○ New ● Existing

☐ Permanent
☐ Duplicate ok
☒ Keep locked

Reason for checking in this version: New 3-D dialogs.

Max number of versions: 10

The solution: Versions for Documents. It stores multiple versions of your files and, if you are about to use an out-of-date file, it offers messages and file-locking capabilities all geared as a system of checks and balances to keep everyone on the same track. If you need an old version of a file, you can get it back.

It can be used for version control of any type of file, whether on a LAN or not. Use it for your own development projects or in shared-file workgroup environments. It supports viewing many word processor file formats and also provides tools for viewing and comparing files. Among the word processing formats supported are WordPerfect, Interleaf, Framemaker, Ami Pro, and Microsoft Word files. For spreadsheets, some formats included are Paradox, DBASE, and comma-separated variable ASCII. It also offers graphics file format viewing for PCX, TIF, EPS, GIF, BMP, JPEG, CGM, WMF files, and others.

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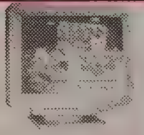

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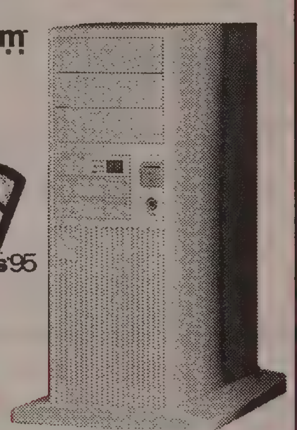

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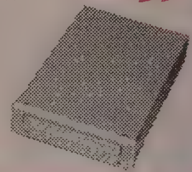

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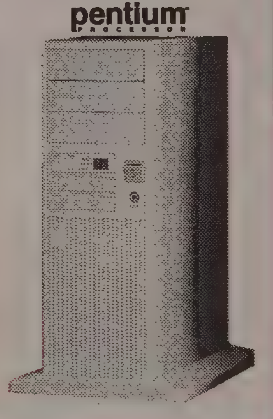

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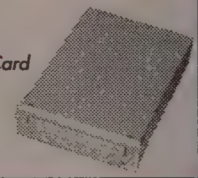

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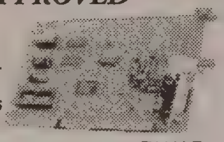

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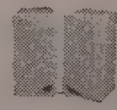

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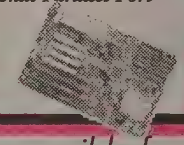

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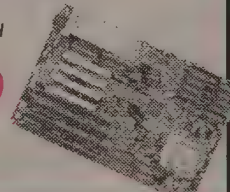

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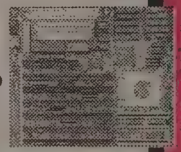

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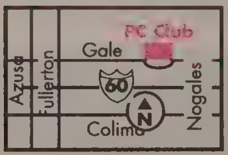

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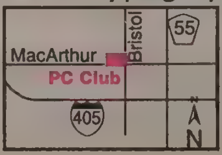

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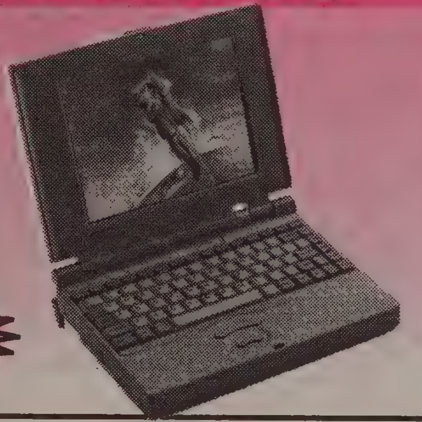

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Focus 2001 101 Enhanced	32
Focus 9000 101 Enhanced	48
MicroSoft Natural Key	88

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Logitech MouseMan II Bus	65
MicroSoft Mouse, Serial	25
MicroSoft Mouse, Bus/PS2	55
3 Button Compatible Mouse	10
TrackBall, Serial	25
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ViewSonic V17G 17", 1280x1024 .28	678
ViewSonic V15 15", 1280x1024 .28, 60Hz	388
ViewSonic V15ES 15", 1024x768 .28, 76Hz	335
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MAG DX-17F	619
MAG DX-15F, 1280x1024, .28	338
CTX 1565GM 15", 1024x768 .28	335
CTX 1451C 14", 1024x768 .28	235
Acer 76I 17", 1280x1024 .27NI, Digital	565
Acer 56L 15", 1280x1024 .28 Digital	338
Acer 34T 14", 1024x768 .28NI, EPA	229
NEC XE21, 1280x1024 .28, 60Hz, LR	1928
NEC XP21, 1680x1200 .28, 70Hz, LR	2375
NEC XE17, 1024x768 .28, 76Hz, LR	998
NEC XP17, 1280x1024 .28, 76Hz, LR	1238
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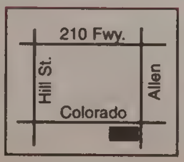

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New Products *continued from page 218...*

ities for version control of code; Versions for Documents brings version control to other types of PC users, such as those who create documentation. Costing less than the price of the labor to recreate several lost files, Versions for Documents is a bargain. It not only saves time and increases productivity, but it offers something that can help you sleep a little better at night—insurance. (Starbase Corp. 1-800-99-STARB)

Amiga Software Review

CrossDOS 6 Professional

Published By: Consultron
List Price: $60. ($30 direct, $15 upgrade)
Reviewed By: Douglas J. Nakakihara

Although CrossDOS began and has always been available as a separate commercial product, Consultron's basic MS-DOS filesystem has been included as a standard part of the Amiga operating system for quite a while. This has allowed Amigas to transparently read from and write to PC floppy disks right out of the box. Amigas equipped with high-density drives can even work with 1.44MB PC floppies, while low-density drives are limited to working with 720K PC floppies. CrossDOS lets you also work with MS-DOS formatted hard drives and removable media like Syquest and Bernoulli disks.

Consultron has completely rewritten the CrossDOS device driver which has boosted floppy read/write speeds by a reported factor of two. Disk access and caching routines have been optimized to gain a ten-fold improvement when working with MS-DOS formatted hard drive partitions. My own tests were too crude to specifically confirm Consultron's speed claims, but performance has definitely improved dramatically.

The new hard drive configuration software makes it a breeze to set up the mounting parameters for an MS-DOS format disk (often removable media) or partition. Furthermore, the new QuickPrep utility allows you to prep the CrossDOS partition directly from the Amiga. Previously this had to be done on an MS-DOS machine or using a PC emulator. (Note that the PC-emulation program CrossPC is no longer bundled with CrossDOS.)

CrossDOS now also supports MS-DOS disk-image files used by many popular PC emulators. If you frequently use MS-DOS media with your Amiga system, CrossDOS 6 is a recommended buy. (Consultron, Inc., 8959 Ridge Rd., Plymouth, MI 48170. 313/459-7271)

TypeSmith v.5

Published By: Soft-Logik Publishing Corporation
List Price: $200 ($125 direct)
Reviewed By: Douglas J. Nakakihara

The last time I reviewed Soft-Logik's font editing/conversion program TypeSmith, I joked that TrueType font support was left out because they had to leave something for the next release. Well, it's no joke now: TypeSmith now supports TrueType fonts, the PC standard! Yeah! Of course, TypeSmith still supports PostScript, Compugraphic Intellifont, Soft-Logik, and Amiga bitmapped formats. There is also a new quick-loading/saving format called IFF RFF.

The editing tools remain basically unchanged with all of the Bezier structured drawing tools you'll need. Bitmapped fonts can be created from scratch or generated based on any outline font. Conversely, an outline font can be auto-traced from a bitmapped image. Still no way to create bitmap metric files, however.

ARexx is fully supported and there is a very clever script included that batch-converts a directory of fonts. A welcome addition is the ability to print a one-page full character set of a font.

Extremely complex PostScript specialty fonts still don't convert well to Compugraphic format. However, Soft-Logik indicates that this format (as well as TrueType) uses excessive points compared to PostScript, so that might be the problem. On a related note, there are two new features that reduce the number of points and correct path directions. These were designed to aid in the loading of Compugraphic and TrueType fonts.

Whether you're into desktop publishing, video titling, or 3-D graphics, you can't get away from the importance of effective fonts. TypeSmith 2.5 gives you the best of all worlds and should be a part of any Amiga user's arsenal. (Soft-Logik Publishing, 315 Consort Dr., St. Louis, MO 63011. 1-800-829-8608)

Wavemaker Version 2.0

Published By: Radiosity Software
List Price: $249.99. (Upgrade $70)
Reviewed By: Douglas J. Nakakihara

Wavemaker is a logo-animation scene generator for LightWave 3D (NewTek). Its author, Tony Stutterheim, breaks the logo-animation creation process into a few basic parts: the logo object, its motion, "elements" behind the logo, and the background. Each part is configurable using Wavemaker's straightforward interface.

The motion parameters (twenty-five different settings) define how the logo comes into view, how long and where it stays, and how it leaves. Up to eight elements can be layered behind the logo from the seventy-two available, including flying TVs, radar sweeps, confetti, etc. Most have various adjustable parameters. Backgrounds can be solid, gradient, an image, or an image sequence.

If you don't have the time to brew your own, sixteen high-quality "pre-fabricated" animations are available. You can even have Wavemaker select all of its own settings to be used with your logo. What could be easier?

Rendering operations can be controlled right from Wavemaker, with most LightWave render options adjustable from there as well. This includes batch-rendering of up to fifteen scene files, paneled 3 x 3 or 4 x 4 scene storyboards, plus direct PAR support. Wavemaker's Image Factory option creates sets of background graphics using randomly selected elements and backgrounds. Build your own custom library of background video graphics while you sleep!

The included demo videotape is a nice touch to this superb product. Wavemaker is now fully compatible with LightWave v3.5. If you do logo animations, you need Wavemaker. You'll likely pay for it with a single job! (Radiosity, Attn: Andy Hill, 3970 N. Victoria St., Shoreview, MN 55126. 612/787-0855)

New Products *continued from page 218...*

PC Hardware Review

EIDE 2300 Plus Enhance IDE Disk Controller for the VESA Local Bus

Manufactured By: Promise Technology
Review By: Woody Liswood

I like boards that all I need to do is plug it in and everything works. The EIDE 2300 is a single board that gives you a VL bus IDE port, a ISA IDE port, a floppy drive port, and a game port. It comes with all the necessary cables to connect everything and has a multitude of jumpers to set every conceivable option.

To take advantage of the advanced features, a variety of drivers accompany the board. I tested the driver for Windows and found no problems. Since the drivers do not work under Windows 95, they were removed by my beta version of Windows 95 during installation . But I did not see any decrease in performance without the drivers under Windows 95.

The EIDE 2300 supports LBA addressing so that you can use an IDE hard drive above 528MB with no problems and ECP/PPP parallel printer ports, and IDE CD-ROMs.

The documentation is excellent and displays each of the jumper blocks along with the various options. As you might expect, you can enable or disable every feature of this board. This is a great product. (Promise Technology, Inc., 1460 Koll Circle, San Jose, CA 95112. 408/452-1180)

Book Reviews

Becoming a Computer Animator

By: Mike Morrison
Published By: SAMS Publishing
List Price: $39.99 (4-color) Book and CD-ROM
Reviewed By: Pamela Mason

Mike Morrison has been a contributor in the computer graphics field for many years and now offers up his experience for those who also want to become computer animators.

The book and CD-ROM contain materials that teach the basics of computer animation. Tutorials are included using the 3-D modeling package Caligari TrueSpace. For example, "Spline Modeling and Character Animation" is a delightful lesson designed to teach you how "to create a simple character animation of a slug and learn how to use object deformation for animation, glue objects together, assign mapping coordinates, and model spline-based objects." There are test drives of morphing, image processing, and modeling packages along with various utilities. All of these are helpful because animators must know how to use a variety of tools, software packages and utilites.

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Morrison talks about the type of education you need and how to get your foot in the door whether you are self-taught, go through an internship, a trade school or take the formal degree approach. In the section, "Where the Jobs Are", he discusses and interviews successful artists like Cyrus Lum of Crystal Dynamics as well as Boss Films President Richard Edlund. He explores the various avenues that can be taken such as working in the interactive entertainment industry, television or in the forensic, scientific or engineering fields.

If you are considering this career path, or are a serious hobbyist Becoming a Computer Animator is an excellent resource, guidebook and introduction to the exciting field of computer graphics and animation. (SAMS Publishing. 1-800-428-5331)

Kidware: The Parent's Guide to Software for Children

By: Michael C. Perkins, M.A. and Celia H.Nunez, M.A.
Published By: Prima Publishing
For: DOS, Windows, Mac
List Price: $14.95
Reviewed By: Pamela Mason

As children get more and more of their educational and learning experiences from software, both at home and at school, parents are wondering as they sift through the sheer numbers of titles available for kids, "What are the best choices?"

Kidware is a guidebook to the best choices, by subject, put together by Michael Perkins, who teaches kids how to work with computers, (and is also senior editor of Red Herring magazine) and Celia H. Nunez, an expert in integrated learning systems. This book covers one hundred ten recommended titles for DOS, Windows, and the Macintosh, for kids ages 3–13.

Topics include using the computer as a writing and publishing tool and how to distinguish good subject matter programs from the drill and practice type programs. There is also a section on multimedia and when multimedia is worthwhile for kids.

Kidware goes beyond just being a published list of titles available. It offers thoughtful discussions and guidance from a teaching perspective—what will your child learn and how will they learn it? It gives a complete overview of the different types of learning models found in children's software, explains their uses and what each is best suited for. These range from thinking games, creative play, role-playing, reference programs, subject matter programs and learning programs. "Simulation programs entice children to investigate new subjects and learn new ways of thinking. They encourage them to solve problems, organize information and make deductions."

This book lays a foundation of understanding for parents that will help them for years to come. It is a valuable resource for guiding the aquisition of their children's computer learning skills. (Prima Publishing. 916/632-4400)

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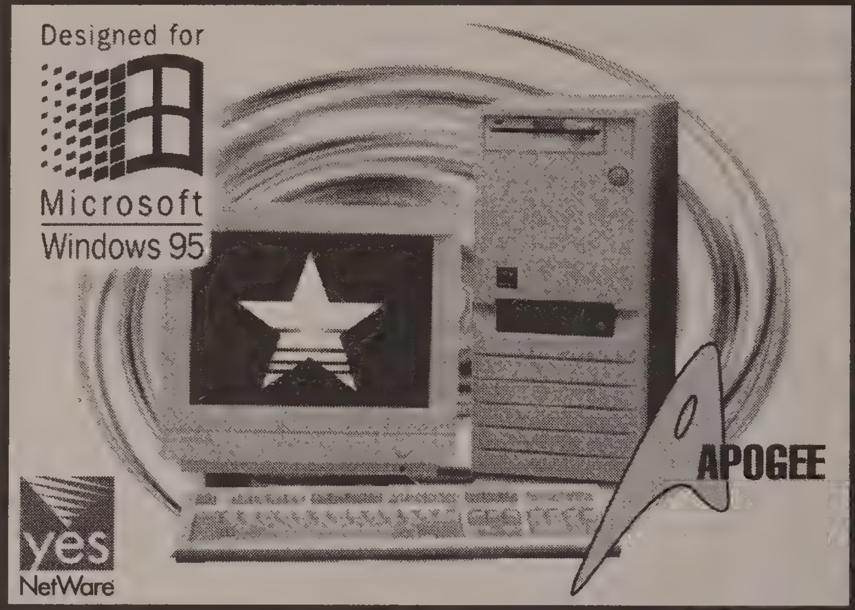

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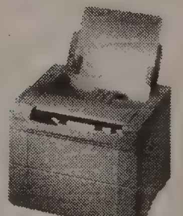

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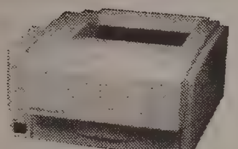

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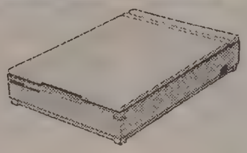

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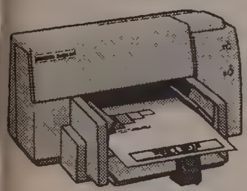

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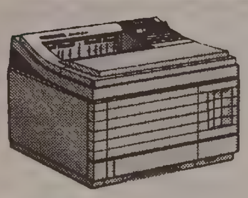

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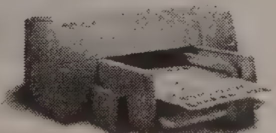

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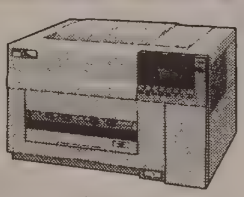

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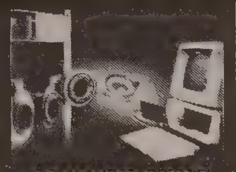

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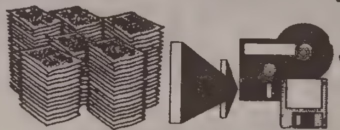

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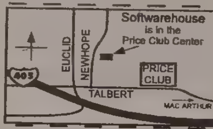

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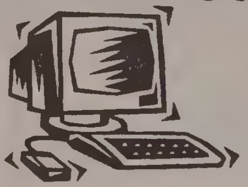

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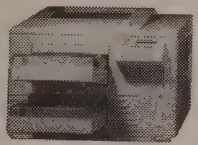

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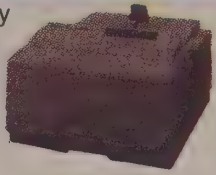

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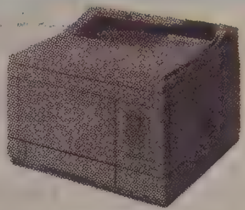

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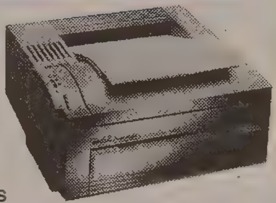

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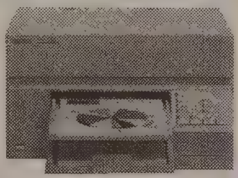

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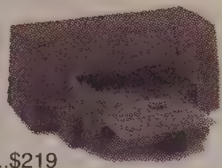

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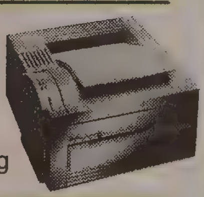

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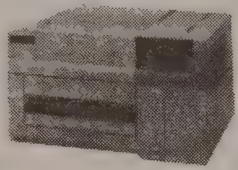

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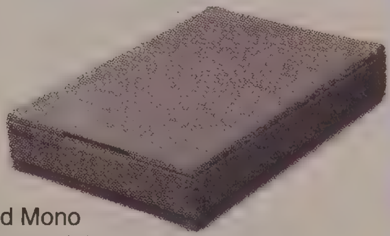

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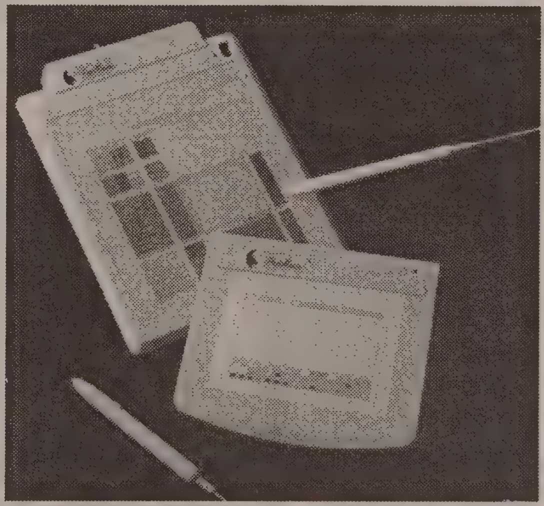

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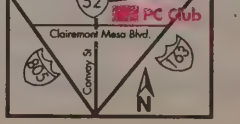

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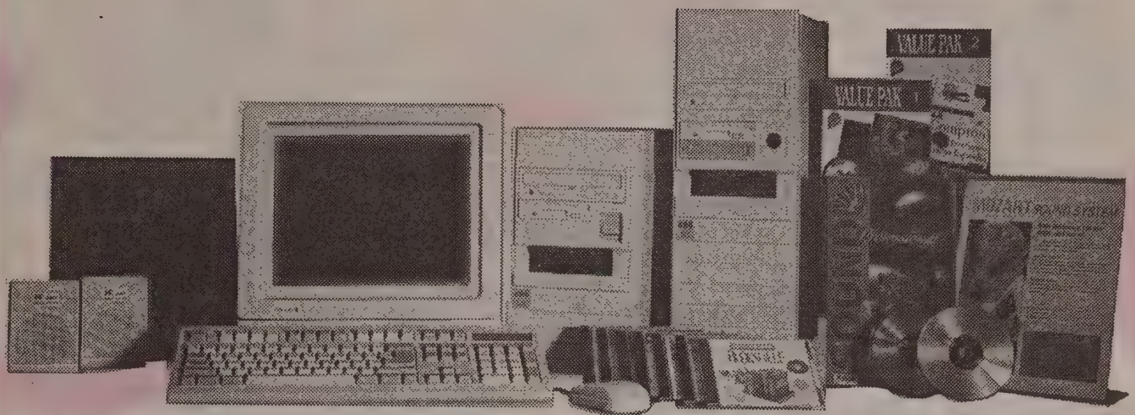

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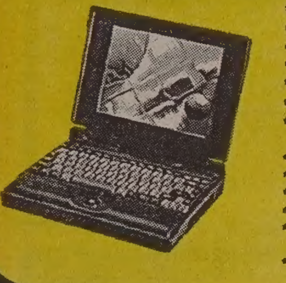

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* TEAC 1.44 MB floppy drive
* 850 MB IDE hard drive
* PCI Enchanced IDE HD controller
* Connect up to 4 hard drives
* ATI Mach 64 or Stealth 64 w/1 MB DRAM
* Proton 15" 1280 X 1024 NI monitor .28 dp
* Flat screen, Digital control, Low-radiation
* 2 serial, parallel, & game ports
* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* Sound Blaster 16
* Quad-speed (4X) CD-ROM drive
* 140 Watt Hi-Fi speakers

Special

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* TEAC 1.44 MB floppy drive
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* PCI Enchanced IDE HD controller
* Connect up to 4 hard drives
* PCI graphic accelerator w/1 MB
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* 2 serial, parallel, & game ports
* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse

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* CPU cooling fan
* 256K Cache
* 16 MB RAM expandable to 128 MB
* TEAC 1.44 MB floppy drive
* 850 MB IDE hard drive
* 32-bit IDE HD controller
* 32-bit graphic accelerator w/1 MB
* Proton 15" 1280 X 1024 NI monitor .28 dp
* Flat screen, Digital control, Low-radiation
* 2 serial, parallel, & game ports
* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* Sound Blaster 16
* Quad-speed (4X) CD-ROM drive
* 140 Watt Hi-Fi stereo speakers

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* 32-bit IDE HD controller
* 32-bit graphic accelerator w/1 MB
* Proton 14" 1024 X 768 monitor .28 dp
* Non-Interlaced, energy saving
* 2 serial, parallel, & game ports
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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

The Time Has Come To Repay The Debt

or

The Devil Has His Due

I don't give *much credence to these kinds of stories. Especially when they are tied to stones as notes and flung on my porch along with solicitations for gardening services.*

Still, it seemed worth repeating.

The author is Julian Lovelace.

This is the truth, Dvorak! Read on and believe!

There's a back room at the Redmond Campus. It's called the Redmond Lounge and only a few select Microsoft employees have ever been allowed inside—or so the story goes. From what I have pieced together, the room was built for Satan himself, as was the Redmond campus.

If you don't believe it, rent a helicopter and check out the design from directly overhead. The whole place is shaped like the Satanic Talisman called Wah Fender Yeh. This is no joke.

At the point of the eye of the Wah Fender Yeh talisman is the Redmond Lounge. There is an executive office there with a closet. The closet is actually an elevator, and you get inside and go down two floors to the Lounge. It's also called the meditation room by people who have been there.

If you wonder why I know so much, I can tell you that I was the electrician who wired the thing, and although I had no clue about it at the time I got to go back last year. Apparently a rat or something ate through one of the conduits and I had to repair the wires. I had to sign some sort of document saying I'd never talk about the room.

There are a bunch of little shrines, all surrounding a large black chair that looks kind of like an electric chair—only creepier. There are a bunch of niches in the wall, each with a small urn. I believe that within these walls they perform ceremonies to curse competitors and their products. I examined the contents of one urn, and I found ashes and one unburnt piece that I'm sure was the remains of the Lotus Notes box.

I'm fixing the conduit, and behind me one of the walls swings open, like a door. A guy in a long black robe marches up—up, mind you!!—some steps and walks into the room. I have no idea where these steps come from. I could see that they went way down, and a yellowish red glow came from down there too!

Anyway, this guy glides in. Like he was on roller bearings or something. Black outfit, black shawl. I'm telling you, he looked exactly like that horrible creep in the last *Star Wars* movie. You know the guy with the yellow eyes? Well, this was the guy, no kidding!

He glides right up to my face. I see those yellow eyes and freeze. "Excuse me," he says softly, "when are you going to be done with those repairs?"

"In a few minutes," is all I could say. So he says, "The sooner the better." "Yes, sir!" I said.

The guy turns around, again like on ball bearings, and slides back to the door. He slips down the stairs as the wall closes behind him. Before I could begin hyperventilating, which is what I wanted to do, the elevator door opens and in comes a carpenter. Nonchalant. He says hi to me like he comes in this place every day and has known me for years.

"I guess you're the electrician, eh?" he asks in a Canadian accent.

"Yeah, I am. The weirdest thing just happened. Some geezer in black came through that wall and chatted with me. The guy had yellow eyes. I'd swear it was the devil himself. I mean, it was horrible."

"That guy? Yeah, he is the devil. He comes in here to pester you to work faster. I've seen him a couple of times. I understand he works here. Some forces-of-evil thing Microsoft uses as a marketing tool.

"At least that's what an old girlfriend told me who used to work in this wing. Most of the people in this wing know about that guy. I think he has an office down the stairway he came up. When I first ran into him I thought it was some sort of elaborate gag, but apparently it's not. Somehow the company has managed to summon the devil to help them become what they have become. How else could they do it? I asked one of the executives about it, and was told I'd be fired if I ever discussed it again."

"Doesn't any of this bother you?"

"Naw, I'm a contractor. As long as they pay me, I'm fine with it."

Just then a camera slowly descended from the ceiling. A small speaker was underneath the lens. "Mr. Lovelace, please finish what you're doing and report to the second floor immediately." The camera rose back into the ceiling.

The carpenter looked at me. "I think you're in trouble. Asking too many questions maybe?"

Just then the elevator door opened and I rushed in and pushed 2. As the door closed, I quickly pushed 1 and jumped out of the elevator on the first floor, rushed out of the building and into my car. I swear a siren sounded, but I eluded any pursuit.

Now I'm in Manteca, holed up at the Motel 6. I think I stumbled onto something. Tell my story, please!

To: Julian. I think it's an elaborate scheme to keep you from invoicing them for the electrical work. ■

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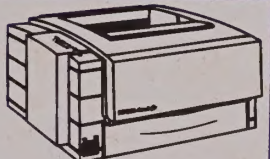

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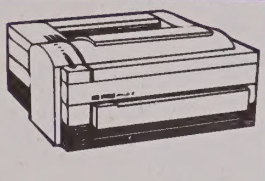

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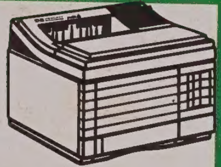

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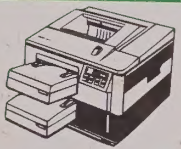

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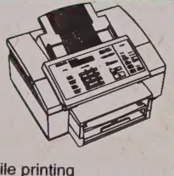

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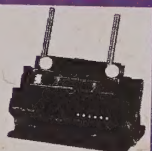

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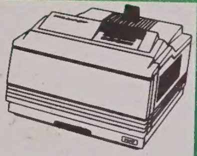

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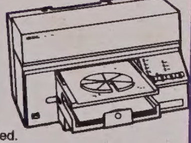

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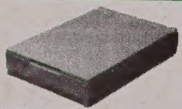

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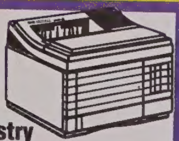

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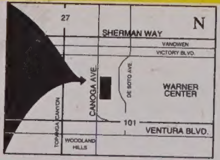

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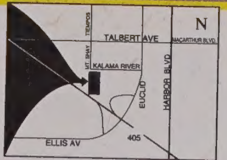

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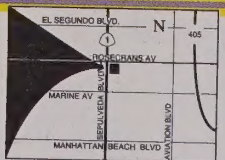

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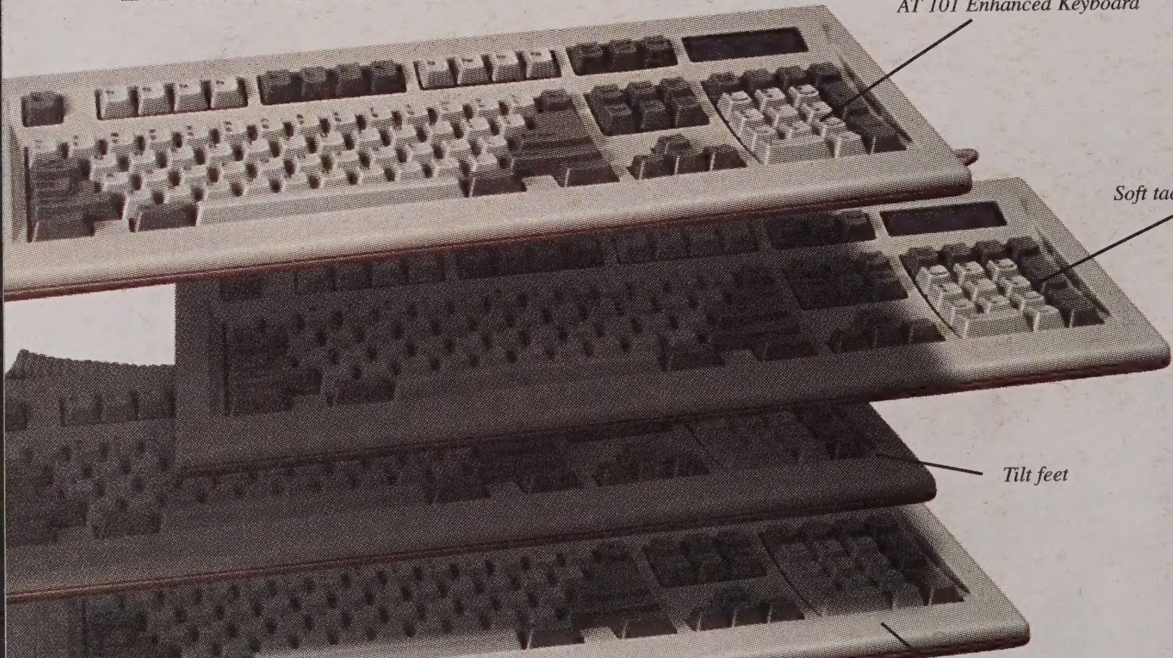

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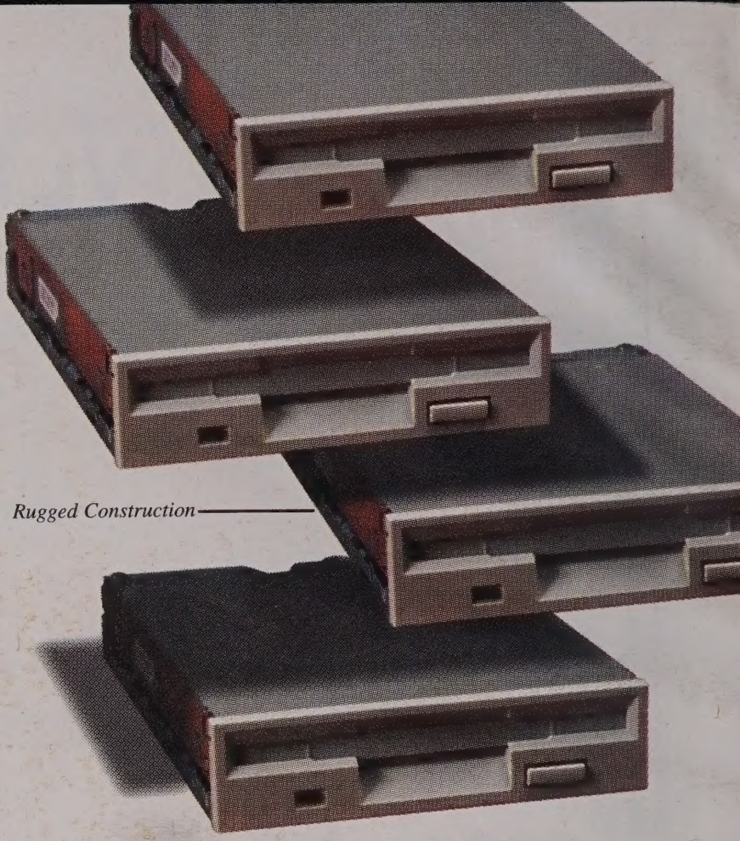

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